MARITIME HERITAGE MINNESOTA



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Log Book 24 of the USS Essex

January 1, 1888 - June 30, 1888

The Day-to-Day Operations of Shipbuilder Donald McKay's Last Ship



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USS Essex Log Book 24

Finding Aid

Adams class ship USS Essex (IX-10) was designed and constructed by premier North American shipwright Donald McKay. Her keel was laid down in 1874 and she was launched in 1876. She was a three-decked wooden screw steamer sloop-of-war with auxiliary sail (bark-rigged). She was 185 feet long, 35 feet in the beam, had a 14.25-foot draft, and was 1,375 tons. When commissioned, she carried six big guns, all muzzle loaders: one XI-inch and four IX-inch Dahlgren Naval Artillery guns, and one 60-pound Parrott Rifle The ship's armory carried dozens of small arms including rifles, pistols, revolvers, and cutlasses. Further, she carried a six auxiliary boats including a launch, two cutters, a whale boat, one gig, and a dinghy. The combinations of guns and watercraft carried on board USS Essex could change from log book to log book. She served with the US Navy in active duty and as a training ship with the Ohio Naval Militia, the Illinois Naval Militia, and the Minnesota Naval Militia. She was intentionally burned on Minnesota Point in Lake Superior at Duluth in 1931. Her Minnesota Archaeological Site Number is 21-SL-1030 and she is a National Register of Historic Places Property.

Maritime Heritage Minnesota digitized the 62 known USS Essex log books held at the National Archives in Washington, DC, and at the US Naval Academy in Annapolis in 2010. The log books consist of the daily activities on board the Essex as recorded by deck officers on duty. Those deck notes were then transcribed to be the official log of the Essex that were sent to the Navy Department in Washington, DC, where they were bound into their current book form. At the beginning of most log books, there are: a title page, two list of officers pages, a crew complement page (listing the crew by rank and job), an armaments page (list of the different large guns, boats, and small arms), and two pages of compass observations. Not all log books contain these pages and some include additional information, including a plan and section of the Essex in Log Books 8 and 9 and four pages of directions on how to fill out log pages in Log Book 21. Sometimes two transcribed versions of log pages were sent to the Navy Department and duplicate books were produced. However, sometimes the duplicate books were not bound with exactly the same pages, so some books overlap each other in date. Also, some log book pages have writing too close to its spine edge and after binding, some words and numbers were 'lost' in the spine if the binding remained tight over the decades. Further, it must be kept in mind that the names of ships, both American and foreign, as well as geographical locations usually expressed in different languages will have variations in spelling. With this in mind, the deck officers of the Essex, when writing the log pages, may misunderstand what the actual name of a ship or geographical marker actually is and their handwriting may present challenges or be nearly illegible. The digitization and editing of the USS Essex log books were made possible with funding provided by the Minnesota Historical and Cultural Heritage Grant

program, part of the Arts and Cultural Heritage Fund of the Clean Water, Land and Legacy Amendment.

Log Book 24 of the USS *Essex*: January 1, 1888-June 30, 1888

The National Archives houses USS *Essex* Log Book 24. Throughout Log Book 24, comments were made on:

- sail adjustments with sail type and action specified
- banking of boiler fires in order to put the ship on stand-by for immediate use
- coupling and uncoupling the propellor when the ship was shifting from steam to sail and vice-versa
- when under steam the different watches record the average steam boiler pressure and engine revolutions
- lowering of smokestack and proceeded under sail and vice-versa when the Essex was underway
- when anchored nearly every watch described the state of the anchor cables: crossed ('cross in hawse, stbd chain on top' or 'Elbow in hawse') and often will mention 'clearing the hawse' (the crossed anchor cables were uncrossed)
- casting deep sea lead for soundings
- patent log readings
- water distillation using the ship's boilers to produce freshwater and refilling the freshwater tanks
- coaling of the ship
- weather recording: temperature, wind speed and direction, barometer readings, state of the sea
- recording the ship's behavior (heavy rolling or pitching)
- testing flood cocks in magazine and gun rooms
- testing of all electrical apparatus
- orew conducting ship maintenance: engine maintenance/repair, boiler maintenance/repair, coal bunker maintenance/repair, general ship cleaning, bilge cleaning and checking pumps, scraping and painting and sometimes tarring and caulking the ship's hull and infrastructure, rigging repair/replacement, repairing sails, replacing sails, steam cutter maintenance/repair, steam/sail launch maintenance/repair, gig maintenance/repair, dinghy maintenance/repair, whale boat maintenance/repair, turned and cleaned hammocks and bedding, repairing rail, gun carriage/battery maintenance/repair
- crew conducting drills: furling and unfurling sails, target practice with the main battery (great guns), boat drills - all hands called to arms and away all boats for naval tactics under sail and oars, general quarters drills, torpedo drills, abandon ship drills, landing party drills,
- cadet/apprentice drills: signaling drills
- receiving fresh water from shore through pumps or lighter
- receiving provisions and stores: food, medical supplies, clothing, engineering gear, construction

- Quarterly Board of Survey's findings of condemned articles on board (food, equipment) and their fate (food was usually tossed overboard) from the inventories of the different ship's departments (Ordnance, Engineering, Navigation, Equipment, Medical, Pay)
- crew promotions
- crew quarters inspection
- liberty parties sent ashore
- lists of new crew members recruits or transfers from other ships- taken on board during a cruise
- crew transfers to other ships
- crew reporting the expiration of their contracted naval service
- crew members in solitary confinement or other punishments for various infractions, AWOL crew, general and summary court martial proceedings, AWOL crew put in irons
- rewards offered for the return of AWOL crewmen
- weekly Sunday services; after the services, once a month, the Articles for Better Government of the Navy were read to the crew

NOTE: The *Essex* deck officers who recorded the daily happenings on the ship often translated the names of non-American ships incorrectly. MHM determined the correct spellings of the ships and those corrections are reflected in the Finding Aid, not the poorly transliterated ship names.

At the beginning of Log Book 24, in January 1888, USS *Essex* was anchored in Kobe Harbor, Japan, under Commander Theodore Frelinghuysen Jewell. USS *Essex* was assigned to the US Asiatic Squadron. On January 2, 1888, sloop Flagship USS *Brooklyn* fired a 5-gun salute with the French flag at the fore and the Commanding Officer of HMS *Linnet* visited *Essex*. In early January, the Canadian Pacific steamer *Parthia* and a French Messageries Maritimes steamer left the harbor. The crew cleaned the copper bottom of the sailing launch's and the Navigator took all the compasses on shore and tested them for susceptibility to vibrations. One crewman described as 'crazy drunk' was brought on board by local authorities and confined in double irons. *Essex* sent a reward to the US Consulate for delivery to the police for their help. The crew were put through drills - they called away all boats and exercised the running boats crews at pulling, and the Japanese mail steamer SS *Tokio Maru* entered the harbor. On January 6, hard hat divers from sloop Flagship USS *Brooklyn* were assigned to repair an inspection valve on *Essex* under the waterline.

Other repairs and maintenance were conducted throughout the month. The crew took the gig ashore and scrubbed her out on the beach. The outer hull of the ship and the gun carriages were scraped. Mid-month a gang of caulkers from the shore came on board to caulk the outside of the ship and work on the ship's boiler. The Engineering Department was busy repairing the engine and tested all electrical connections & batteries. The Carpenter's Gang fitted a new piece of seating rail on starboard side of the poop and once the *Essex's* outer hull was scraped, near the end of the month the outer hull was painted. The Sailmaker measured the ship for a new set of awnings. Also

during January, the crew conducted exercises on shore by landing Battalions on shore for drills. The Marine Guard mustered and underwent inspection and then performed bayonet exercises. A Naval cadet detached from the ship and was ordered to Panama and then the Naval Academy via sloop USS *Omaha*, anchored in the harbor. Seven additional crewmen transferred to *Omaha* and she headed out to sea. *Essex* halfmasted her flag along with Flagship USS *Brooklyn* following the motions of the French corvette *Parseval*. Throughout January, *Essex* exchanged courtesies and visits with ships at Kobe including German gunboat *Wolf*, Japanese ironclad *Ryujo*, protected cruiser HMS *Leander*, French flagship battleship *Turene* and cruiser *Primauguet*, and American bargue *St. James*.

During February 1888, foreign and Japanese ships entered and left Kobe Harbor; often *Essex* and the other ships exchanged visits and pleasantries. These ships were the French gunboat *Parceval*, Japanese gunboat ironclad *Ryujo*, German gunboat *Wolf*, Russian armored cruiser Flagship *Dmitrii Donskoi* flying the pennant of Vice Admiral Schmidt, Russian gunboat *Bobr*, and French cruiser *Primaquet*. During one visit, Commander Jewell welcomed Vice Admiral Schmidt, Captain Skoycloff, and Captain Molas of the Imperial Russian Nay on boar *Essex*. The activities undertaken by the Essex crew included breaking out the forehold and restowing it, they examined the magazine and shell room flood cocks, sea cocks to the forecastle pump, gun cotton and electrical apparatuses, and all were in good condition, and shore workmen worked in the Engineering Department throughout February. The men polished the broad side guns, painted the white stripe along the outer hull, and scraped the poop deck. The crew put the boiler back into the steam cutter and the fires from boilers #1 and #3 to boilers #5 and #7. The dinghy was taken ashore and scrubbed; an oar was broken in the process.

Other February activities that took place on *Essex* included the auction of the personal effects of George Middleton, a crewman who fell out of the rigging and died in late December. An *Essex* crewman was brought aboard by a Kobe municipal policeman on board a Yokohama steamer. The crewman was confined on *Essex* and awaited further action; he was sent to the US Consul to answer to charges of assault and battery. However, the crewman returned and trial was postponed. One crewman was sent to the US Naval Hospital in Yokohama and on February 22, the men dressed the ship in honor of George Washington's birthday; the German gunboat *Wolf* followed suit.

Throughout March, workmen from Kobe were still employed in the Engineering Department and the outer hull of the ship was still being painted; and the inside of the gig was painted. The dinghy was sent ashore and was scrubbed and painted, the Sailmakers gang put lagging (insulation) on the boilers and worked on the hammock clothes. In order to test the circuit, the crew fired a light gun cotton torpedo from the starboard boom. The steam cutter was tested for two hours and it was found that the steam whistle did not work and they burned out one grate bar. Late in the month, it was noticed that a piece of the port galley top was burned out and cracked off. The Board of Survey condemned six coal buckets and recommended their repair.

In March 1888, Essex exchanged greetings and pleasantries with the German and American Consuls stationed in Kobe, French cruiser *Primaquet*, Russian gunboat *Bobr*, American ship Yorktown, German corvette Sophie, French battleship Flagship Turene, and German gunboat Wolf announced the death of Emperor William. Essex half-masted her colors for the former emperor and the crew dressed the ship in honor of the new Emperor of Germany - following suit behind Wolf. A variety of military exercises were conducted in March. The crew landed a battalion for a company drill (after they returned, musket #25 was found to have a crack in the stock), the crew exercised boats at naval tactics, the men practiced sail furling and unfurling, and the Marine Guard practiced at oars using the 2nd cutter. General Quarters and great guns drills were ordered late in the month. The Ship's Paymaster sent 10 yen to the US Consulate as the reward to be delivered to Kobe authorities for the return of an Essex crewman who was AWOL. In the end, four crewman were brought back to the ship by police and other men returned to Essex on there own - late and drunk. One man was confined in double irons for being noisy and he created a disturbance in the brig. One crewman returned to the ship from Kobe Hospital and the Chief Engineer took a 6-day leave of absence.

In April 1888, Commander Jewell exchanged visits and pleasantries with the German corvette Flagship Bismarck and corvette Sophie (after they had left the harbor and then returned after target practice), French gunboat Parseval, German corvette Carola, sloop-of-war USS Juniata, French Flagship Turene, protected cruiser HMS Leander, American bark Adolf Obrig, and Russian screw clipper Nayezdnik. Flagship Turene fired an 11-gun salute and USS Juniata saluted the port, the French Admiral, and the German Commodore in the harbor. Drills included the crew being sent out in boats to be exercised under oars in charge of a coxswain. Essex underwent repairs and maintenance throughout April including the replacement of the fore and main rigging ratlines, repairing the main topsail, whale boat, and coal bunkers, and painting the starboard gangway railing. Workmen from Kobe were still at work in the Engineer's Department for most of the month and a contractor made boiler repairs.* Essex transferred a crewman to USS Juniata, US Mail was taken on board, and the Paymaster received \$14,000 in yen for ship's business. Crewmen who were AWOL were returned by the Kobe police and rewards were given, and a Japanese workman found with liquor on board Essex was delivered to local authorities.

For the first three weeks in May 1888, *Essex* remained in Kobe Harbor, Japan. The crew conducted military drills including acting in battalions during a shore drill, they exercised at the great guns very often, conducted 'abandon ship' and making and furling sails drills, the crew called away all boats to exercise in naval tactics, and the apprentices were exercised at signals. Maintenance and repair was conducted on the sailing launch that was send ashore to be scrubbed, and the Sailmaker's Gang made a new cover for the 1st cutter. Notes were made about the prisoners being held for Courts Martial, including their repeated exercise times and then their General and Summary Courts Martial, resulting in confinement and dishonorable discharges. *Essex* exchanged courtesies with English gunboat HMS *Rattler*, American bark *Sunbeam*, American ship *St. Francis*, sloop Flagship USS *Brooklyn*, protected cruiser HMS *Leander*, and French battleship Flagship *Turene*, corvette *Parseval*, and cruiser *Primauguet*. In mid-May,

Essex's Lieutenant Commander G.H. Bicknell left the ship on 30 days leave, and it was reported that "men [were] giving entertainment on board to crew of Brooklyn" - it is assumed some Essex crewmen 'put on a show'. Preparations were made for going to sea, including the coaling of the ship, and the Engineering Gang lit the fires in all the boilers, turned over the engine and then started it, she shifted berth, exchanged signals with USS Brooklyn, and left Kobe Harbor with in consort with Flagship Brooklyn on May 20.

USS *Essex* and USS *Brooklyn* headed for Yokohama and passed a Japanese bark along the way. On May 22, the ships anchored in Yokohama Harbor, they exchanged signals, and Commander Jewell paid an official visit to the Flagship. Communications and courtesies were exchanged with German gunboat *Iltes*, gunboat HMS *Rattler*, protected cruiser HMS *Leander*, gunboat USS *Monocacy*, and Japanese ironclad *Fuso*. On May 24, a salute was fired by HMS *Leander*, USS *Brooklyn*, HIJMS *Fuso*, and a Yokohama shore battery in honor of Queen Victoria's birthday; the crew dressed *Essex* with rainbow pennants along with the Flagship. The steam cutter was launched for testing and it was found to be working well, and the ship's boilers were drained. Apprentices and Courts Martial prisoners were transferred to USS *Brooklyn*, some *Brooklyn* crewmen were transferred to *Essex*, and the *Essex* officers made a sick report to the Flagship. Commander Jewell awarded a good conduct badge with bars to crewman George Huyck, and the CO and his officers gave 'an entertainment' on board the *Essex* on May 31.

For the first four days of June 1888, Essex took on coal from Langfeld & Meyer of Yokohama, after Commander in Chief Admiral Chandler rejected 50 tons of Takasima coal from Jardine & Matheson, sending away their lighters. Essex transferred personnel with both sloop USS Marion, gunboat USS Monocacy, and Flagship USS Brooklyn, and sent crewman to US Naval Hospital in Yokohama. English gunboat HMS Rattler attempted to leave the harbor twice, only to anchor and stay in at Yokohama; and a French gunboat anchored in the port. On June 4, Essex left Yokohama in the evening and headed through Yeddo Bay and into the Inland Sea. She passed through Kii Channel and into Nagasaki Harbor on June 9. Commander Jewell exchanged visits from officers of the Russian corvette Rynda and cruiser Vitiaz, as well as the US Consul. While anchored at Nagasaki, the Gunners Gang shortened the new breechings for the broadside battery, took on over 28 tons of coal, and 500 pounds of tobacco for the Paymaster's stores. On June 13, Essex left the harbor for Chemulpo, (Incheon), Corea (Korea), taking gunnery exercises along the way. On June 15, the ship anchored in Chemulpo, and exchanged visits with officers of the iron gunboat USS Palos (and transferred an ensign to the American ship), and Russian, Japanese, and French menof-war, the Japanese Consul, and the Foreign Adviser to King of Corea.

During the last two weeks of June, *Essex* remained anchored at Chemulpo. The Japanese mail steamer *Owari Maru* entered the harbor, delivered her mail, cargo, and passengers, and left Chemulpo; only to return nine days later. *Essex* exchanged visits and courtesies with French gunboat *Aspic*, Chinese cruisers *Chih Yuen* and *Ching Yuen*, sloop-of-war USS *Juniata*, cruiser HMS *Leander*, sloop HMS *Satellite*, the

Chinese Consul, and the Superintendent of Trade of Chemulpo. Commander Jewell was the ranking American officer in Nagasaki' accordingly, USS Palos came from the inner harbor and asked Commander Jewell permission to anchor in the outer harbor -Jewell answered 'yes'. Similarly, USS Juniata asked permission of Jewell to salute the Japanese Consul; he granted permission and Juniata fired a 7-gun salute. On June 18, the ship's colors were half-masted, along with the other ships in the harbor, on account of the death of the German Emperor. The next day, Essex landed a force of 13 men, 12 Marines, and two ship's officers, all under arms, and proceeded on to Seoul; on June 21, the ship's divisions were sent ashore for target practice. On June 25, Lt. Commander G. A. Bicknell returned from his 30 day leave and two days later, Seaman C.C. Anderson fell off the top gallant forecastle, injuring his head. On June 28, the crew dressed Essex in rainbow fashion with the British ensign at the main on honor of the anniversary of Queen Victoria's coronation in 1838; the English, Russian, Chinese and Japanese vessels fired 21-gun salutes in honor of the day. On June 30, Japanese, Russian and English warships fired 7-gun salutes with the Chinese flag at the fore, and the Essex landing party returned from Seoul.

*April 12 is written on the page for April 11.

Tags:

American Ships: bark *Adolf Obrig*, sloop Flagship USS *Brooklyn*, sloop-of-war USS *Essex*, sloop-of-war USS *Juniata*, sloop USS *Marion*, gunboat USS *Monocacy*, sloop USS *Omaha*, iron gunboat USS *Palos*, barque *St. James*, ship *Yorktown*

British Ships: protected cruiser HMS *Leander*, gunboat HMS *Linnet*, gunboat HMS *Rattler*, sloop HMS *Satellite*

Canadian Ship: steamer Parthia

Chinese Ships: cruiser Chih Yuen, cruiser Ching Yuen

French Ship: gunboat *Aspic*, corvette *Parseval*, cruiser *Primauguet*, battleship Flagship *Turene*

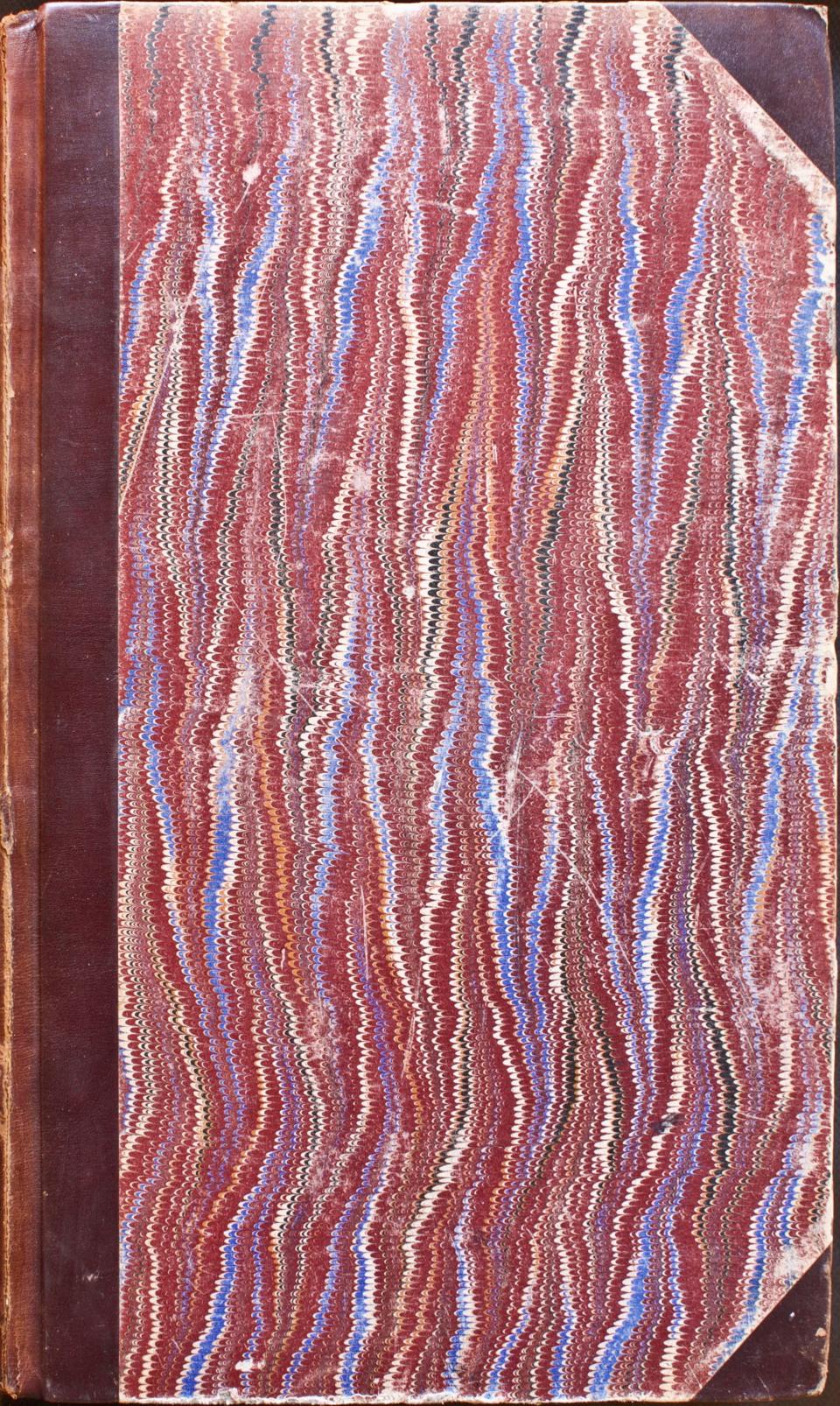
German/Prussian Ship: corvette Flagship *Bismarck*, corvette *Corola*, gunboat *Iltes*, corvette *Sophie*, gunboat *Wolf*

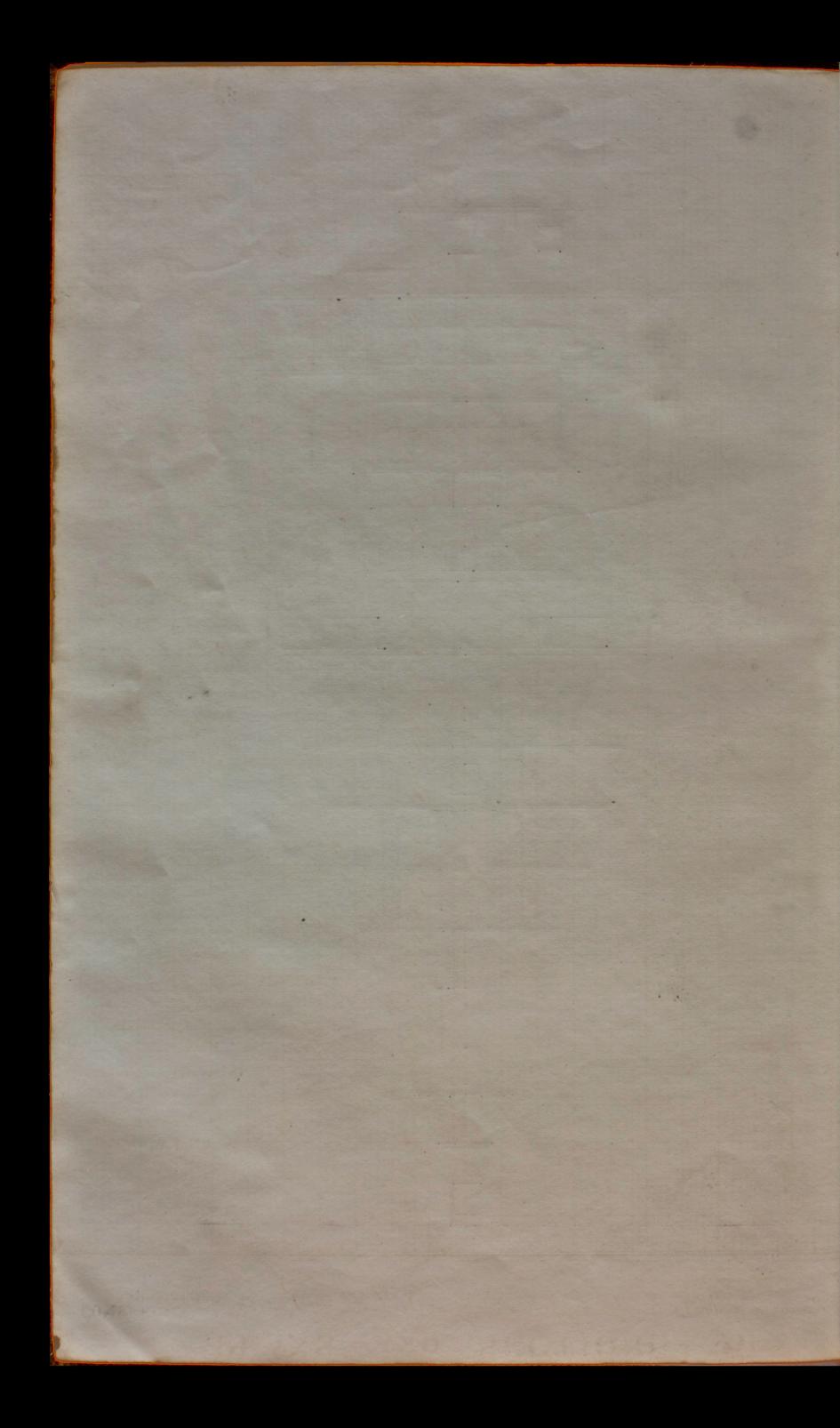
Japanese Ships: ironclad *Fuso*, mail steamer SS *Owari Maru*, ironclad *Ryujo*, mail steamer SS *Tokio Maru*

Russian Ships: gunboat *Bobr*, armored cruiser Flagship *Dmitrii Donskoi*, screw clipper *Nayezdnik*, corvette *Rynda*, corvette *Vitiaz*

USS Essex







LOG BOOK

OF THE

U.S.S.ESSEX

3" RATE
0F SVX GUNS,

COMMANDED BY

Attached to Ciriatis Squadron,

Commencing January 195, 1888,

at Kobe, Japan,

and ending James 30th, 1888,

at Chemineps Cores.

BUREAU OF NAVIGATION,

NAVY DEPARTMENT.

1886.

LIST OF OFFICERS

Attaghed to and on board of the V. S. S. , commanded by Suger January, U. S. N., during the period covered by this Log-Book, kmg 30 4, 1889. audary 1 05, 1888, to J. J. Jewell Commander. Lieux. Comor. a. Bickuel Vieux. J. B. M. Mason Lieux. D. J. Halloway Lieux. C. C. Poundstone Ousign B. Hoggath Onsign J. J. Loomis Ousign Durgeon H.A. Hawke Chief Bugineer P. D. Paymaster P. a. Buginees R. Dmith A. Herwig Cadel Engineer . lo. Kedgrave Mayal CadeX R. S. Levis R. D. Wainwright 1 of Lieux U. A. M. C. Pay Clerk M. D. Darnall Augh Rodman S. C. Craig Gusign Maral CadeX. Ex Calloway Quent and Navigator.

Examined and found to be correct.

LIST OF OFFICERS hed/of transferred, on board the U.S.S. Who have died, been detached of transferred, on board the U. S. S.

commanded by I kevers Commanded, U. S. N., during the period covered by this
Log-Book, from January 1 et, 18 88, to Jamy 30th, 188.

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TIME OF OCCURRENCE AND PARTICULARS.

TIME OF OCCURRENCE AND PARTICULARS.

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J. B. M. Mason Lieis, Jany 18th 1888 to United Italis.

H. Rodueau Eusign June 16th 1888 to U. D. D. Palos. Examined and found to be correct. Saceoway Cheub Stavigator.

7

COMPLEMENT of Petty Officers, Seamen, Ordinary Seamen, Landsmen, Boys, and Marines on board

of the U. S. S

Self

188

at first commissioning

| UMBER LOWED. | RATES. | NUMBER ON BOARD. | NUMBER ALLOWED. | RATES. | NUMBER ON BOARD. |
|-----------------|-------------------------|--|--------------------|--------------------------------|---------------------|
| , & | Chief Boatswain's Mate, | 1 | 1 | Cabin Steward, | 1 |
| 1 | Boatswain's Mate, | 2 | 1 | Cabin Cook, | 1 |
| 2 | Seamen Gunners, | | 1 | Ward-room Steward, | 1 |
| , | Chief Gunner's Mate, | 1 | 1 | Ward-room Cook, | 1 |
| / | | | 1 | Steerage Stewards, | 1. |
| 1 | Gunner's Mates, | 1 | 1 | Steerage 'Cooks, | 1 |
| 3 | Chief Quartermaster, | 3 | | Warrant Officer's Steward, | |
| | Quartermasters, | 3 | | | |
| 3 | Coxswains, | 2, | 8 | Warrant Officer's Cook, | 8 |
| - | Captains of Forecastle, | 4 | - | Seamen, | 1 |
| 4 | Captains of Tops, | 2 | 16 | Ordinary Seamen, | 16 |
| 2 | Captains of Afterguard, | 3 | 19 | Landsmen, | 19 |
| 9 | Quarter-Gunners, | , | N | Boys, | 63 |
| 1, | Carpenter's Mates, | , | 19 | Apprentices, | 0 |
| 1 | Sailmaker's Mates, | 1 | 2 | Machinists, | 2 |
| 1 | Armorer, | /- | 1 | Boiler Makers, | 3 |
| 1. | Captains of Hold, | / | 3 | Water Tenders, | - |
| / | Ship's Cook, | / | 3 | Oilers, | 3 |
| / | Ship's Corporals, | , | 1 | First-class Firemen, | , |
| / | Lamp-lighter, | | 6 | Second-class Firemen, | 6 |
| 2 | Carpenters and Calkers, | 2 | 121 | Coal Heavers, | 12 |
| / | Baymen, | . / | 13/3 | TOTAL, | 166 |
| 1 | Master-at-Arms, | | / | | , |
| 1 | Apothecary, | / | | | |
| 1 | Ship's Yeoman, | /. | | | |
| 1 | Paymaster's Yeoman, | / | | | |
| 1 | Engineer's Yeoman, | / | | | |
| 1 | Schoolmaster, | / | | | |
| 1 | Ship's Writer, | . / | | ADDITIONAL FOR FLAGSHIP. | |
| 1 | Ship's Tailor, | 1 | | Master of the Band, | |
| 1 | Ship's Barber, | 1 | | | |
| 1 | Painter, | 1 | | Chief Musician, | |
| , | Bugler, | 1 | | First-class Musicians, | |
| 1 | | , | | Second-class Musicians, | |
| , | Jack of the Dust, | , | | Printer, | - |
| / | Blacksmith, | | | Steward to Commander-in-chief, | |
| | | | | Cook to do, | |
| - | | | | Coxswain to do. | - |
| | | | ************ | Seamen to do. | |
| | | 1 | | Ordinary Seamen to do. | |
| | | | | Landsmen to do. | |
| | | | | | |
| 2/2/2 | | | | | |
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Examined and found to be correct.

Los Galloway Went of Navigator.

Description of Instruments used for Meteorological Observations, their Location, &c.

| INSTRUMENT. | MAKER. | NUMBER. | LOCATION. | DATE OF LAST COM- PARISON. | COMPARED WITH- | ERROR. |
|--|-------------------------|---------|--------------------------------|----------------------------------|-----------------------------|---------------------------|
| MERCURIAL BAROMETER. | Jas. Green New York. | 1496 | Capt Office abath. armory. | June 4 1886 | U.S. F. Brooklyn | 03 |
| ANEROID BAROMETER. | (P. B.) | | Cabin Bulkhead | | | |
| THERMOMETER, (Dry Bulb.) | JEST.J. Green | 1520 | Mez. Mas under Poop Seck | 30th 1888 | Signal Office Washington | 18" 0.3" to to 1120 + 001 |
| THERMOMETER, (Wet Bulb.) (Psychrometer.) | J. & N. J. Green | 1534 | Same | Same | Same | 180-0.6" to to 20 +00.1 |

Examined and found to be correct.

Ex Galloway hint and Navigator.

Of the U. S. S

CARRIAGES. REMARKS. B. F. Sweets Sig Saf 34 . Butter 168. 60 Pds James Sig 6. Paragla. SECONDARY.

SMALL ARMS

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All Centluses

Examined and found to be correct.

Et Calloway

Chent and Navigator.

TABLES of Deviation of the Standard Compass No. 68 on board the U.S. S Excel

| DATE: | | | | | | |
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| PLACE OF OBSERVATION: | | | | | | |
| LATITUDE: | | | | | | |
| LONGITUDE: | | | | | | |
| OBSERVED VARIATION: | | | | | | |
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Examined and found to be correct.

Navigator.

LOG of the United States Steamed Essel, 3 Rate,

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| 2 | | | | W. K. W | 7 | 2 | | | 2988563129 , , 4 | , |
| 3 4 | | | | , | 1 | 2 | | | 2988533129 | ' |
| 5 | | | | , | " | 3 | | | 2983453129 " " 8 | " |
| 7 | | | | , , | , | 3 | | | 2983463029 , 8 | " |
| 8 | | | | M. W. by Co. | " | 2 | | | 2986 483129 , 8 | " |
| 9 | | - | | W. 16. W | " | 3 | | | 2990503230 " " | , |
| 10 | | | | 1 | , | 4 | | | 2991503 f31 beg. 1 | " |
| 11 | | | | " | ., | 5 | | | 2991503631 | 4 |
| Noon. | | | | , | " | 5 | | | 2990523632 " 5 | , |

| Course and distance | made good since preceding noon by observ | ations, | knots. | | tenths. | |
|---------------------|--|----------------------|--------|-----|---|---|
| | Latitude by D. R. | | 0 | , | " | |
| | Longitude by D. R. | | • | , | " | |
| Position at Noon: | Latitude by observations of ⊙ | | o | , | " | |
| | Longitude by chronometer from Forenoc | on Observations of ⊙ | • | , | " | - |
| | (Latitude by | | 0 | , | " | |
| Position at 8 a. m. | Longitude by | | | 1 | " | |
| - 4 | (Latitude by | | • | , | " | |
| Position at 8 P. M. | Longitude by | | • | , | " | |
| Current during the | time, knots tenths per hou | ar, setting to the | | | | |
| Variation of the Co | mpass by Amplitude o observed at Sunrise | , ship's head | | , | " | |
| Variation of the Co | mpass by Amplitude ⊙ observed at Sunset, | u | • | , | " | |
| Variation of the Co | mpass by Azimuth ⊙ observed at | u | • | , | " | |
| Variation of the Co | mpass by Azimuth ⊙ observed at | u | • | 1 | " | |
| Water expended dur | ring the preceding 24 hours, | | 1 | va | gallons. | |
| Water | during the preceding 24 hours | , | |) | " | |
| Water remaining on | hand fit for use at Noon, | | 12 | 00 | " | |
| Coal consumed duri | ng the preceding 24 hours, | | ton | 102 | gallons. " " " " " " " " " " " " " " " " " " | |
| Coal remaining on h | nand at Noon, | | 26 " | 8. | 70 " | |
| | | | | 1 | | - |

| P. M. | , , | | | | | 14 |
|-------|------------|-------|-----|----------------|------|---------------|
| 1 | west | loest | 4.5 | 29.885 13833 | beg. | ciscura of A |
| 2 | , | , | 40 | 2988483833 | , | , 6, |
| 3 | , | , | 30 | 2993594035 | , | " 6, " |
| 4 | " | , | 35 | 299658 4035 | , | , , 6 , |
| 5 | | 4 | 2 | 2998563935 | 6.5 | , 59 |
| 6 | W. H. W | 1 | 2 | 20.01593834 | , | 3 5 1 |
| 7 | west | " | 2 | 30.085 83 835 | " | en 6, |
| 8 | W.by 16 | 4 | 2 | 3003503835 | 4 | , 6 " |
| 9 | 16. W. | 4 | 1 | 3005593836 | , | our Vriet 3 1 |
| 10 | 16 W. Ly K | 11 | 1 | 30 056 13936 | " | . 2 ' |
| 11 | 16. cel | G'arm | 10 | 30 05623986 | | , 2, |
| Mid. | " | | 0 | 30 05 6 24 034 | " | , / , |
| | | | | | | |

Summander J. J. Seivere , U. S. Navy, Junio auf January 1 of , 188 mg. under the command of from W. H. W. Clear house. Quesign le grafestones Though to S. a. M. g bharut, 9.025. A. b. Harvy, 9 a. 25. J. Braw, W. J. a. Cajupsed, 9ca 40. Roy 9a. 15. From 8. C. A to Meridian Junally clear. Leved. Jutte, to stiff bruge in squall from W. X. W. Link and 1. a. Dickney, reported his return from leave at 9. sommetaled winspected creed at quartus. a Hanne, 265, J. Gries, both, a con Repails Ja, S. C. absent without leave Rent rewards of 10 year each firsthe about named week of I lowwinglang both, returned of board her hours sourting as Orenk. By mest of the boundy Offices he was placed union Leutrep change to cober, at 9. Bounds signal running 3 to Flage his. Jusign a 91 row Perisian to H Farely clear ever con cum clouds. Bright & cold. Light squall from week, wired varying in fire figur greats to shiff breeze lelear harbse admiras behandles visited the Ship Gent liberty party in chore Allound for Trought to 8 Jusign, a referred out board 9 his overtime. By order of Comog Offices released 9 & lawwings to from sentrip charge he, having become codes at success confined by Oldries, This arts I behurette S'a. 25, I Donan vot, a bambbul Sea " Q. Rose, Fa 15, all in double wous with conformity orders of levered Offices. R. b. Darous, So 5, was not confined as being

Light ains flow west 1st Gart. lealer afterwards. lelian haves Court of

Examined and found to be correct.

Frow & M. to Missenger

Theo. B. M. Makson & Navigator.

Quisign bolgatt

LOG of the United States Steamers Steamers State, Rate,

| | | 1 | | | V | 1 | | | | | | | |
|-------|--------|---------|------------------------|--------------------------------------|---------------------------------------|--------|-------|---------|---|---|------------------------------------|----------------------------------|-------------------|
| Hour | Knots, | Tenths. | Reading of Patent Log. | COURSES STEERED by Standard Compass. | WIND. Direction by Standard Compass. | Force. | Heel. | Leeway. | BAROMETER. TEMPERATURE. Height att'd. Aft, Neter at Nater at Neter at Net Neter at | State of the Weather, by symbols. | Forms of Clouds, by symbols. | Prop. of Clear Sky, in 10ths. | State of the Sea. |
| A. M. | | | | Now by cd | 16. W. Lef 103 | 1 | | | 30 as 62 4034 | 1.9 | and wing | 0 | 1 |
| 2 | | | | , , ,) | , | 1 | | | 3000 624038 | , | ., | 0 | " |
| 3 | | | | loest | , | 1 | | | 30 00 624239 | 1. | " | 0 | 1 |
| 4 | | | | 10. | " , | 1 | | | 30 09594940 | | " | 0 | 1 |
| 5 | | | | w. Les | west | 1 | | | 20.0255 H239 | , | , | 0 | " |
| 6 | | | | , , | , | 1 | | | 30.01044239 | , | 1. | 0 | 1 |
| 7 | | | | W. W. 9. | , | 1 | | | 30 01 sof H3 40 | ,, | , | 0 | " |
| 8 | - 4 | | | , , | , | 1 | | | 30,00564340 | de | 1 | 1 | 4 |
| 9 | | | | W.by. 16 | , | 2 | | | 3000544340 | 1 | Cun | / | , |
| 10 | | | | west | , | 30 | | | 3000 564540 | beg. | " | 1 | " |
| 11 | | | | W. by X | | 4-6 | | | 2998544641 | " | circun | 5 | " |
| Noon. | | | | " | , | 46 | | | 29 9655 Hb H1 | , | " | 6 | " |
| | | | | | | | - | | | | | - | |

| Course and distance | e made good since preceding noon by observations, | | knots. | tenth | s. |
|---------------------|---|------------|----------|-------|--------|
| | (Latitude by D. R. | | • | , " " | |
| | Longitude by D. R. | | • | , ,, | |
| Position at Noon: | Latitude by observations of ⊙ | | 0 | , ,, | |
| | Longitude by chronometer from Forenoon Observa | tions of ⊙ | • | , ,, | |
| | (Latitude by | | 0 | , ,, | |
| Position at 8 a. m. | Longitude by | | • | , ,, | |
| | | | 0 | , ,, | |
| Position at 8 P. M. | Latitude by | | 0 | , " | |
| | (Longitude by | | | | |
| Current during the | time, knots tenths per hour, setting t | to the | | | |
| Variation of the Co | ompass by Amplitude o observed at Sunrise, ship's hea | nd | 0 | , " | |
| Variation of the Co | ompass by Amplitude ⊙ observed at Sunset, " | | . 0 | , ,, | |
| Variation of the Co | ompass by Azimuth ⊙ observed at " | | 0 | , ,, | |
| Variation of the Co | ompass by Azimuth ⊙ observed at " | | 0 | / " | |
| | ring the preceding 24 hours, | | H | od ga | llons. |
| Water | during the preceding 24 hours, | | | | u . |
| | n hand fit for use at Noon, | | · f | - | " |
| | | | | | |
| Coal consumed duri | ing the preceding 24 hours, | | . / tons | 80 | lbs. |
| Coal remaining on l | hand at Noon, | | 25 " | 790 | " |
| | | | | - | |

| P. M. | | , | , | | | | | | 1 |
|-------|---|-----------|----------|----|----------------|------|--------|-----|----|
| 1 | | W. by | loesh | 4 | 29.94 63 HbH | beg. | ciocun | 0 | 1 |
| 2 | | " | , | 4 | 29.9454/4/2 | , | , | H | 2 |
| 3 | | week | 1 | 4, | 299652 4142 | , | 1 | 4 | 4 |
| 4 | | W. by 16 | " | 4 | 29.90/09 464/ | " | 1 | H, | 11 |
| 5 | | west | 1.19 11. | 3 | 300059 451 | 6.5 | " | # | 1 |
| 6 | | W. by A | 0.6y | 2 | 30 0/0 g short | ,) | 1 | 10 | " |
| 7 | | W.A.w | 1 | 3 | 2002564339 | " | 1 | 6 | " |
| 8 | | W.by A | 1 | 3 | 30.01584238 | " | 1 | 8 1 | 1 |
| 9 | | W. bef. 4 | " | 3 | 3004584240 | , | 1 | 1/1 | " |
| 10 | | W. Oy. A | , | 2 | 3004584229 | 1 | Cuu | 3 | 1 |
| Mid. | | , | 1 | 2 | 300 8 4 2 3 9 | 1 | ." | 2 | " |
| Mid. | 1 | " | " | 2 | 20035841.39 | 1 | 1 | | |

under the command of Orunnander J. Jewey, U. S. Navy, Monday January 2, , 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Douremences and Centit H a. M. W. Bijed. Clear house. how It ho. & a May from loud. aft og to I & Withay got underway Leceives in Pay Dept 114/2 ess of fresh but Wolg that & getty of fresh bread at 8. Thughits fine or calut of 5 guns with French flag at the fore Busing the From 8. a. 11 to 11 erisian Squares from evert, wind varing from grets to fresh breeze, Mustered at lige pected at 930 absent without leave for Hobrigg, 200 bound Offices of XM.9. junet careed beleas harved Gent a revoul to U. I brusulate for delinen of Mobiga, Dos, on Yours. Ousign a Street row / Bridian to H) Fair, cip and ceum clouds Jewell mere aring at times in squall to stiff breeze from week certained dry gun-cotton ap botteries to found theurice good condition. blear houver! round to I. J. Susign WII breeze from W. by . Telear, Lawse. Dright Wood. High to greats Gusign Witte Trow 8. M. to Midnight bloupy and cool. Blouds concum a cum. Light to greet breigh from W. by to. Hove showing occasionally. Commenced distilling of 100g. Clear hacase Eusign to 9/ Examined and found to be correct. Theo. B. M. Madour & Navigator.

LOCK of the United States Steamers Esself, 3 Rate,

| | | | Reading | | WIND. | | | | BAROMETER. TEMPERATURE. State of Forms of 52 | Sea. |
|-------|--------|---------|----------------------|---|-----------------------------------|--------|-------|---------|--|--------------|
| Hour. | Knots, | Tentim. | of Patent Log. | COURSES STEERED By Standard Compass. This I head | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. att'd. Ther. A to the Weather, in inches. There is in inches in inches. The inches is in inches in inches. The inches is in inches in inch | State of the |
| A. M. | | | | 21 16 18 | Way to | 1 | | | 30 00/6/4340 to aug ximy! | g |
| - 2 | | | | rough | , | 1 | | | 30 09 69 43 40 | " |
| 3 | | | | W.16 W | " | 1 | | | 30.11 624340 " 2 | , |
| 4 | | | | . 4 | , | 1 | | | 30.13614239 . 2 | |
| 5 | | | | 211 | | 2 | | | 30.16 624238 " 21 3 | 1 |
| 6 | | | | 16 W | 7 | 2 | | | 3018624288 | 1 |
| 7 | | | | Mew. by us | , | 2 | | | 3020624138 tex, 6 | " |
| 8 | | | | 16.00 | , | 2 | | | 3020614034 , 8 | , |
| 9 | | 93 | | , | 4 | / | | | 3026644339 " , 8 | , |
| 10 | | | | 110 | , | 1 | | | 30,201664440 " 4 8 | , |
| 11 | | | - | W. No w | , | 1 | | | 3021604540 , , 9 | , |
| Noon. | | | | , | " | 1 | | | 30.16624844 , 8 | 1 |

| Course and distance | e made good since preceding noon by observation | ns, | knots. | | tenths. | |
|---------------------|---|-------------------|--------|----|----------|--|
| | (Latitude by D. R. | | 0 | , | " | |
| | Longitude by D. R. | | • | , | " | |
| Position at Noon: | Latitude by observations of ⊙ | | 0 | , | " | |
| | Longitude by chronometer from Forenoon C | Observations of ⊙ | 6 | , | " | |
| | (Latitude by | | | , | " | |
| Position at 8 a. m. | Longitude by | | - 0 | , | " | |
| | (Latitude by | | 0 | , | " | |
| Position at 8 P. M. | Longitude by | | • | , | " | |
| Current during the | time, knots tenths per hour, s | etting to the | | | | |
| Variation of the Co | ompass by Amplitude @ observed at Sunrise, sh | ip's head | • | , | " | |
| Variation of the Co | ompass by Amplitude @ observed at Sunset, | " | • | , | " | |
| Variation of the Co | ompass by Azimuth @-observed at | # | | , | " | |
| 1 | ompass by Azimuth ⊙ observed at | tt | . , | , | " | |
| Water experied du | uring the preceding 24 hours, | | 200 | 1 | gallons. | |
| Water Des | Titled during the preceding 24 hours, | | 200 | 3 | u | |
| Water remaining or | n hand fit for use at Noon, | | 24 | _ | | |
| Coal consumed dur | ing the preceding 24 hours, | | / tons | 13 | 60 lbs. | |
| Coal remaining on | hand at Noon, | | 23 " | 16 | 70 " | |
| | | | | 1 | | |

| P. M. | Lev by co | Sid | 2 | 3011554843 | 65 | ciscus 9 9 |
|-------|-----------|-------|---|--------------------------|----|------------|
| 3 | w.byg | | 2 | 301106 4944 | , | , 9" |
| 4 5 | , | West | 2 | 30,3600045 | 1 | 9 " |
| 6 7 | M'is | 1 | / | 301658 2643 | 1 | nme 10 " |
| 8 9 | " | 1 | / | 3014604442 | " | , 10, |
| 10 | 8 X E | 16.16 | 1 | 3018544542 3018504442 | | , 10 , |
| Mid. | ,) | , | / | 301955 13/2 | " | . 10 . |

under the command of buumanger J. J. Seweel , U. S. Navy, June Day January 3., , 1888. Douwences and Cutil Ha M Pacific Steamer Pareties lift, the harbor bound home. Listuling Glens have Trouvet to 8. a A pright and cord blouds cisand whats. Light bruge from Distuling bless Hawse Jack J. Robrigg, Loe, canner broad 24%, his continus. at quarters and afterwards had but aling opiel. The Havigators hook are the compassed on shore "d lesled them for sensibility of tune of vibration Lawrence of the fight them In study them of vetration to the source of the state of Jerue 8. Ph ho Mifuegal Eight & Eilings to Good Burgman Sars camin almosars crany runk brought him about to confined him in Double irous by own, of County Offices. blear howe Caral bart le 91 Examined and found to be correct. Theo. D. M. Masare Navigator.

| | | | | | | | | " () " | | | | | | | |
|-------|---------|---------|-------------------|--------------------------------------|-----------------------------------|--------|-------|--|---|--|--|--|--|--|--|
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| | | |) | L | WIND. | 0 | - | BAROMETER. TEMPERATURE. | 1 | | | | | | |
| 1 | | | Reading of Patent | COURSES STEERED by Standard Compass. | | | | Height Ther. Grand Mark by symbols. State of the Weather, by symbols. State of the Weather, by symbols. Forms of Clouds, by symbols. | | | | | | | |
| Hour. | Knots. | Tenths | Log. | Ili A News | Direction by Standard Compass. | Force. | Heel. | Height Ther. A GIRE TO THE WEather, by symbols. Clouds, by symbols. The Weather, by symbols. Clouds, by symbols. | | | | | | | |
| - | | | | nus reas | \ . / - | | | | 1 | | | | | | |
| A. M. | | | | 1,64 | 1 166 | 1 | | 8 1-1 1 1 1 1 2 9 | 1 | | | | | | |
| 1 | | | | 1 del de | , , , | 1 | | 30.19 5 3 + 2 sto ben come 10 9 | | | | | | | |
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| 7 | | | | 664.1 | , | 1 | | 30 165 14 039 | - | | | | | | |
| 8 | | | | 664.1 | 1 " | - | | 3018554134 11. 11/1 | 1 | | | | | | |
| 9 | | | | 606 | Nalin | 0 | | 30 2015 8 40 4 1 1 1 4 11 | - | | | | | | |
| 10 | | | | 6 by 1) | Gash | / | | 30.2260434/ 6.3 | 1 | | | | | | |
| 11 | | | | 611 | , | 1 | | 30.206/H34/ , et 6, | + | | | | | | |
| Noon. | | | - | Gash | 1 | / | | 30 18 59 213 13 " " 4 1 | 1 | | | | | | |
| | | | | | | | | | | | | | | | |
| • | Course | and o | distance n | nade good since preceding no | on by observations, | | | knots. tenths. | | | | | | | |
| | | | - | Latitude by D. R. | | | | 0 / // | | | | | | | |
| | Positio | on at | Noon: { | Longitude by D. R. | | | | • / // | | | | | | | |
| | | | | Latitude by observations of | 0 | | | 0 / " | | | | | | | |
| | | | | Longitude by chronometer f | rom Forenoon Observation | ns of | 0 | 0 / 1/ | | | | | | | |
| | Positio | on at 8 | a. m. { | Latitude by | | | | 0 , " | | | | | | | |
| | | | 1 | Longitude by | | | | 0 / " | | | | | | | |
| | Positio | on at 8 | P. M. | Latitude by | | | | 0 / " | | | | | | | |
| | | | 1 | Longitude by | | | | 0 / // | | | | | | | |
| | Curren | at dur | ing the ti | me, knots te | enths per hour, setting to | the | | | | | | | | | |
| | Variat | tion of | the Con | pass by Amplitude ⊙ observe | ed at Sunrise, ship's head | | | . , ju th a | | | | | | | |
| | Varia | tion of | the Com | pass by Amplitude O observe | ed at Sunset, " | | | 0 / " | | | | | | | |
| | | | | pass by Azimuth O observed | | | | • ' " | | | | | | | |
| | Varia | tion of | the Com | pass by Azimuth O observed | at " | | | · // " | | | | | | | |
| | | / | 400 TO | ng the preceding 24 hours, | | | | gallons. | | | | | | | |
| | Water | 1 | Lot | the during the preced | ling 24 hours, | | | Hos) " | | | | | | | |
| | Water | rema | ining on | hand fit for use at Noon, | | | | 2500 " | | | | | | | |
| | Coal c | onsun | ned durin | g the preceding 24 hours, | | | | / tons 240) lbs. | | | | | | | |
| | Coal r | emain | ing on ha | and at Noon, | | | | 22 "14 30 " | | | | | | | |
| | | | | | | - | | | 7 | | | | | | |
| P. M. | | | | 61 | 0 | | | | 0 | | | | | | |
| 1 | | | | 6. by! | Gast | / | | 30,13 68 H6+3 6.5 cincular of 9 | + | | | | | | |
| 2 | - | | | alla | 96 | 1 | | 30,054 48 40 , , 4, | + | | | | | | |
| 3 | - | | | 6961 | 994 | 2 | | 30 of 56 49 46 " " 6 " 6 " | 1 | | | | | | |
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| 5 | 1 | 2 | | V 1 0 | west | -/ | | 3010 62 49 46 " " 6," | 1 | | | | | | |
| 6 | 1 | | | 16 16 w | Dalud | 0 | | 30,12644946 " " 4" | 1 | | | | | | |
| 7 | 1 | | | 11/0 | " | 0 | | 3011624846 " " 5" | 1 | | | | | | |
| 8 | 1 | | | 16168 | " | 0 | | 30.09604846 " " " | 1 | | | | | | |
| 9 | 1 | | | 16. 6. by | " | 0 | | 300659Hy 45 " eto of" | | | | | | | |
| 10 | - | - | | 166 | , | 0 | 1 | 30,045 gity45 , , 3 1 | 1 | | | | | | |
| 11 | - | | | 166 | 1 2 0 | 0 | | 30.00.584940 , , 50 | | | | | | | |
| Mid. | 1 | 1 | 1 | " | 16 6.4 8 | 1 | | 30 09 55 45 43 " organing & " | | | | | | | |
| | 1 | | - | dance or many | | - | | | | | | | | | |
| | | | | | | | | | | | | | | | |

under the command of Communication of Jenning H. S. Navy, Was Dues Day January H. 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Commence auflentis 4 a Main from h & Bright consonlight leverage 9 Thought ho f. a & pay fog around housen. Fiberty foarty returned. Beceived in Pay Lept for visues to creed, 11/1/2 lbs such of but and vegotables 14 94 165 Great house rowl 8. Q. A to // erideauf Fair the pleasant Hazy Light, Ely ais. at 9:30 went to quarter for un preting unisted. Celarised the divisions as follow :- vir 1et and 2. Dioceious of graf guy, had of Shations. Harines Hannal of arms. Tested the unagazing to sheel procee fidod cocks to found there in good condition? af 9:00 carled away are boats. Exercid runing boats Ry b. Harbuf Ja. 2,6, O Rose Ja 15, 9 6 havets, Jass, a bacupber, Ja my Johnson los J. W. Rosbins gr / reported the experation of his apprentichip. roul of Dribian to H M lelegy " Coal Wind light from Gard thefting to 996 1/2 9 (1) Beened on board in Equipenent Dept 50 fuis 1/2" Hairly Rope stoo fuis 14" Hairly Rope, 15 fus 21/4" Hairly Robe 100 few 3/4" Hairly Robe, 120 few 31/2" hairly Robe 120 few 4" Macilla Robe, 50 few 12 The Macilla Robe, 65 few 21/4" Bock Robe, 18 few 31/4" Bock Robe 19 few 19 Macilla Robe. such a. I. couted Yures Kaish; steward Takis Haru cause with harbord. Joh stages over the shids paparatory to scraping this beleas have. Ha. Leves Work Work Troud 8. M. The Midnight airs from 16 Mon rou about 10 30 Examined and found to be correct. Theo. A. M. Marga Navigator.

oxied in the harbor BAROMETER. TEMPERATURE. A. M. 29.9665 HHA 29 920 145 43 2 29840A 45 HH 4 298304 4544 west beg/b winh 2983 SH 5044 W.61 ocg/ eny mak 29855450HN West 29. 866 B50 Hay 2989034946 299263 48 45 10 west 29 9558 4944 299559 Ag Hg 11 299409 AN 4 Noon. ocal oum much I " knots. Course and distance made good since preceding noon by observations, tenths. Latitude by D. R. Longitude by D. R. Position at Noon: Latitude by observations of ⊙ Longitude by chronometer from Forenoon Observations of ⊙ Latitude by Position at 8 a. m. Longitude by (Latitude by Position at 8 P. M. Current during the time, knots tenths per hour, setting to the Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head Variation of the Compass by Amplitude ⊙ observed at Sunset, Variation of the Compass by Azimuth ⊙ observed at Variation of the Compass by Azimuth ⊙ observed at Water expended during the preceding 24 hours, during the preceding 24 hours, Water remaining on hand fit for use at Noon, Coal consumed during the preceding 24 hours, Coal remaining on hand at Noon, P. M. W/2 W. M. W to 2999614411 3001 63 stores 300463 HOHO 0 300608 4439 30,06544238 tho 3009034134 30 3011034134 23 301454 134 2-3 Why & wish 30.186 64238 Maj Wy Makey Calin 0 30,180 64038 11 2018564138 10 wish 3018564 38 Mid.

under the command of Society of Thereday January 5, 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Commences and Cutil H. C.M. Setting in from Go and Sarouelles facility habit first his hours Light to stiff breeze from to blower to brown the second four This pain squall first his hours Light to stiff breeze from to brown have thanks and chain the hop riding to book chains From S. a. A to Merisian Goul good a good good of A blowd to cold Stiff breeze with fresh squalls from to passing squals of rain to proud Engaged scrabing ship outsided. Out 930 made shipsed themany By month of leaving Officer placed J. E. Distois 13. a, in Double irons to avoid acting for reported theff. By order of Omog Officer released a Bergman, 'S'a lembroarily for work Eusign Francis as Havel Gadet Levis left the ship our Leave until the 8th inst. Elbaid in hawse Rharbons chain on hop from Afridian to of To Princially cloudy lead. A Drate to stiff breeze from W. Kill Cugagodin conf. ing ships like, By order of levering Officer placed & & Destais (" in Odeole irous for tex days for theff w a Bergman, 15: a, in Double irous outsits of consting for teg days for creating a dethurbance on board ship while under the influence of liques. Cleaned haire. Just Comership Leconfined A. O. Brun, Ser as per order Stiff squares from W. M. Sunson Des Troubleur and cood, balan Weight airs from loss, letens have Examined and found to be correct. This D. M. Mosing Navigator.

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| // | X | pr | Wi | in the h | eerbod of | 1. | 1 | (of | 9 | | | | | | |
| | + | 1 | | | WIND. | + | | | BAROMETE | R. TEM | PERATURE. | | | 1 % I | - Pog- |
| | | | Reading of Patent | COURSES STEEPED by Standard Courses. | , Direction by Standard | - | | ay. | Height Th | 2.0 | Vet Sec. | State of the Weather, by symbols. | Forms of Clouds, by symbols. | in 10ths | to of the S |
| Hour. | Knots | Touth | Log. | Thinks Good | Compass. | Force. | Heel. | Leew | Height Th in inches. | Air, I | Air, Wet Bulb. Water at Surface. | | -7 | Prop. | State |
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| (| Course | and d | listance m | ade good since preceding no | on by observations, | | | | | knots. | tent | ths. | | | |
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| I | Position | n at 1 | Noon: { | Longitude by D. R. | | | | | | • | , , | " | | | |
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| | | | | Longitude by chronometer f | rom Forenoon Observation | ons of | 9 | | | 0 | | " | | | |
| F | Position | n at 8 | a. m. | Latitude by | | | | | | 0 | | " | | | |
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| | | | 72000 | oass by Amplitude ⊙ observe | | | | | | | | ,, | | | |
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| | | | | oass by Azimuth o observed | at " | | | | | 1 | 71 | | | | |
| | Water | expen | ded durin | g the preceding 24 hours, | Eng 94 haves | | | | | 01 | 7 8 | allons. | | | |
| | | romai | ning on h | during the preced and fit for use at Noon, | ung 24 nours, | | | | | 2 | 100 | | | | |
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| | | | | ad at Noon, | | | | | | | " 950 | | | | |
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under the command of Summander Jamuary 6th, 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. remences and butil It a. 1, Grandly clear. bold. ball. horizon to the go at of 20 released a Burgman 15, a, fit work as per order at time signal frogething 6 45 Trous & Of the Herifiand Sight variable airs. Engaged seraping ship outside at 1029 a diois from the Brooklys began work on in peting valve, ceased row Meridian to f. blear hazer and Degrand Light airs from west his Fed Engaged in leraking ship. Diter from Brookly began work at voclock and Juncher at the Capaired hingection valor. all ready in 129. Places & Pleasury, Mr. mind senting charge to avoid further actions, by returning 9 hours over league from leave baren Eurign & b. Pound this returns Examined and found to be correct. Theo & John Congression.

| | | | Reading | WIND. | | | | BAROMETE | ER. TE | MPERA | | State of | Forms of | Clear Oths. | ne Sea. |
|-------|--------|---------|--|-----------------------------------|--------|-------|---------|-----------|------------|----------|----------------------|-----------------------------|---------------------|-------------------------------|--------------|
| Honr. | Knots. | Tenths. | Patent Log. COURSES STEERED by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height at | her. tr'd. | Air, Wet | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Cles Sky, in 10th | State of the |
| A. M. | | | Lu, oy, ca | balu | 0 | | , | 30.025 | 515 | 248 | | och | winh | 0 | f |
| 2 | | | " | " | 0 | | | 30015 | | | | 1 | " | 0, | , |
| 3 | | | W. Juf 9 | west. | 0 | | | 30015 | / | | , | been | Cuy & much | 12 | 1 |
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| 7 | | | Me deep cel | West | 1 | | | Boots | | 840 | | " | " | 5 | " |
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| 11 | | | Way K | " | 2 | | | 3000/6. | - / | 45 | 0 | " | 11 | 9 | 1 |
| Noon. | | | W. Kus | " | | | • | 30 of 6. | 0, | 1 | | " | 1 | 9 | " |

| Course and distance | made good since preceding noon by observation | ons, | knots. | tenths. | 7 |
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| | (Latitude by D. R. | | 0 , | " | |
| | Longitude by D. R. | | 0 / | " | |
| Position at Noon: | Latitude by observations of ⊙ | | 0 , | " | |
| | Longitude by chronometer from Forenoon | Observations of ⊙ | 0 , | " | |
| | (Latitude by | | 0 / | " | |
| Position at 8 a. m. | Longitude by | | 0 , | " | |
| | (Latitude by | | 0 / | " | |
| Position at 8 P. M. | Longitude by | | 0 / | " | |
| Current during the | time, knots tenths per hour, | setting to the | | | |
| Variation of the Con | mpass by Amplitude o observed at Sunrise, si | hip's head | | , ,, | |
| Variation of the Con | mpass by Amplitude O observed at Sunset, | " | 0 / | " | |
| Variation of the Cor | mpass by Azimuth ⊙ observed at | " | 0 | , ,, | |
| Variation of the Con | mpass by Azimuth ⊙ observed at | u | | / " | |
| Water expended dur | ring the preceding 24 hours, | | 4 | gallons. | |
| Water | during the preceding 24 hours, | | |) " | |
| Water remaining on | hand fit for use at Noon, | | 160 tons 1 | A " | |
| Coal consumed during | ng the preceding 24 hours, | | tons / | 1360 lbs. | |
| Coal remaining on h | nand at Noon, | | 20 " | 1830 " | |

| P.M. | | | | | | | | P |
|------|------------|-------|-----|------------------|-------|---------|------|---|
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| 2 | west | ,) | 2 | 3001610651 | | | | |
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| 5 | W by K | N " 0 | 2 | 3000625650 | | cur | 171 | |
| 6 | 16.48 | Mills | 8 | 3000585444 | " | | (1) | |
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| 8 | W.Mil | , | / | 30 of sures of q | 4 | | 9 | |
| 9 | 16.4 | , | 9 | 300554514m | , | , | 9. | , |
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| 11 | W. 76 id | ,, | 1 | 300/5/5044 | " | | 9 | |
| Mid. | M. W. by 1 | " | / | Bou 656 48 46 | " | " | 9 | 2 |
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under the command of Summanger J. J. Lewell, U. S. Navy, Jahren J RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Dounences and Cutil It Q. Overcast " cloudy at first, with occasional Passing Chowns Searing afterwards but yeisty, Stouds cum adrium, baun till last hours eshew light airs came out from roust. blear hawser blough, clearing Doivards end of watch Mistyaround horizon. Calm aux light airs from 9 w Word. Selfacis My O Brien, Der a Bergman, 15. a, as Der order Secured in Tay Dich for issely to and 117/1 the met of fresh key Janes regulables and get los Fresh Great ch. i. regulating row 8, a. M. holleris you xuy a 11 in Scrabing outer of this until 1. whey washed doing dicks aired hedding with Flagship. By order of the County Offices & F. Courty of was Par Paymaster & Livel returned from leave. row of crisian to 4. C.M Just to great breeze from logal. Dent gjy ashor to by scruthed outly beach. galf what to coffice with Flagshit, following unphious of French covered Parceal lelear harve Fill gharter colors evel Hayshippe From the 8 It Sight airs to greets breeze from lovet to 16 W. 1 MB Haggart Trown 8. The his Historight Cours around the horizon. Dright thailight. Ousign a V Examined and found to be correct. Theo. A.M. My ason Navigator.

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BAROMETER TEMPERATURE

| | | | Reading | | WIND. | | | | BAROMETER. | | | | State of | Forms of | Clear Oths. | be Sea. |
|-------|--------|---------|----------------|--------------------------------------|-----------------------------------|--------|-------|---------|--------------------------------|-------------------|-------------------|----------------------|-----------------------------|---------------------|--------------------------------|-----------------|
| Hour. | Knots. | Tenths. | Patent Log. | COURSES STEERED by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. Ther. att'd. | Air, Dry Bulb. | Air, Wet Bulb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Clea Sky, in 10ths | State of the Se |
| A. M. | | | | wodas | Kel | / | | | 30.0854 | 1 for | 46 | | 6.0 | our | 9 | 9 |
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| Noon. | | | | W. by g | (u, g, u) | 23 | | | 30 1406. | / / - | | | " | cir eum | 6 | " |

| Course and distance made good since preceding noon by observations, | knots. | te | enths. | |
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| (Latitude by D. R. | 0 | , | " | |
| Longitude by D. R. | 0 | , | " | |
| Position at Noon: Latitude by observations of ⊙ | 0 | , | " | |
| Longitude by chronometer from Forenoon Observations of ⊙ | 0 | , | " | |
| (Latitude by | 0 | , | " | |
| Position at 8 a. m. Longitude by | 0 | , | " | |
| | | , | " | |
| Position at 8 P. M. Longitude by Longitude by | | , | " | |
| Current during the time, knots tenths per hour, setting to the | | | | |
| | P | , | ,, | |
| Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head | | | | |
| Variation of the Compass by Amplitude ⊙ observed at Sunset, " | 0 | , | " | |
| Variation of the Compass by Azimuth ⊙ observed at " | • | , | " . | |
| Variation of the Compass by Azimuth ⊙ observed at " | 0 | 1 | " | |
| Water expended during the preceding 24 hours, | 0 | od | gallons | |
| Water during the preceding 24 hours, | |) | " | |
| Water remaining on hand fit for use at Noon, | 12 | oa | " | |
| Coal consumed during the preceding 24 hours, | /2 ton | s 15 | 20 lbs. | |
| Coal remaining on hand at Noon, | 20 " | 31 | 0 " | |
| | | | | |

| P.M. | 7. | 7/201 | | | 1 19 |
|------|----------|-------|----|--------------------------------|---------------|
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| 3 | W. left | 1 | 2 | 3004055146 | " " 8" |
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under the command of Command of Summany James 8th, 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Jour & and Cutil Hay Cour from to the bless have.

Thou Hhs. & a h Sight airs to brung from to d'all & al of 3a Fragatiff
signaled Station and Jargraphical all bless haves.

Thou & a h the Hirdian Surgery Cuty airs from to We W. to W / Dart Light to grutte bruge from W & afterwards at go found afterwards of Grund the great Austin after which have grund for the property of the green at quarters after which have grund Australia person 39 th 8 judying I guedon, freme Ort 20 and I guad on b. A norst Haval leader Leais reported return from leavel at 11 30 upchanged wumbers wind by 9 9 Omaka coming in front 200 U. 99 Cinals auchored at 1200 lelear hause P. Rulesgr, Far reported his time of apprentices of carry expired. from Heredeau to H. V. Jusign a 911 below the Deagrant weather Fight breeze from lovest. Dignated telegraphy 92 12 lelear hourse Laval asch Francis a Levis was this day actached fixed this phip of station of ordered to Proceed to January by the 69. Quegho au from their to the Karal academy for examination from no final graduation. Thought has the lease below have the company of Examined and found to be correct. Theo. B. M. Maggere Navigato

LOC of the United States of Lawys Steel, Blate,

| | | | Panding | 1 | WIND. | | | | BAROMETER. TEMPERATURE. | State of | Forms of | Clear Oths. | San |
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| Hour. | Knots. | Tenthe. | Reading of Patent Log. | by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. Att d. The Height in inches. | the Weather, by symbols. | Forms of Clouds, by symbols. | Prop. of Clea Sky, in 10ths | Stateofthe |
| M. | | | | En del | balue | 0 | | | 29.9/53/544 | 1 | umi | 10 | 0 |
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| Course and distance | made good since preceding noon by observations, | knots. | tenths. | |
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| | Longitude by D. R. | • | , ,, | |
| Position at Noon: | Latitude by observations of ⊙ | o | , ,, | |
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| Position at 8 a.m. | Longitude by | | , " | |
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| Position at 8 P. M. | Longitude by | • | , " | |
| Current during the | time, knots tenths per hour, setting to the | | | |
| Variation of the Co | mpass by Amplitude ⊙ observed at Sunrise, ship's head | • | , ,, | |
| | mpass by Amplitude © observed at Sunset, " | 0 | , " | |
| Variation of the Co | mpass by Azimuth o observed at | • | , " | |
| Variation of the Co | mpass by Azimuth ⊙ observed at " | | £ " | |
| Water expended du | ring the preceding 24 hours, | | o a gallons. | |
| Water | during the preceding 24 hours, | |) " | |
| Water remaining or | a hand fit for use at Noon, | 8 | od " | |
| Coal consumed duri | ing the preceding 24 hours, | tons | 1360 lbs. | |
| Coal remaining on l | hand at Noon, | 19 " | 1190 " | |
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| P. M. | West | west 20 | 20184636248 | bane ciseus, | 49 |
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| 11 | west | " 0 | 29.49585149 | , , | 0 4 |
| Mid. | " | " | 2949545149 | " ' | 0 " |

under the command of Surgenander January January Got, 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Commences and until Hoon rose about 3 bross in house. From I tho. & a Mandered Misty Fight circumy dours. Fight air fins each of fresh beef the regitables to fresh bread. Gross in Lawse Joh von stages and consumences scraping ship outside. 1 Howard forg Trout of the Meridian Justain from the Grees at work sorting leading rainer and overhauled botteries Trouve Meritigue to of PM Ousign U. Cu Dittuan 15 a & F Grocker Fais and & Dolbier 15. a. & Privates Villes, Locker & Shawers. Cycy ages scraping ship outsits. Delivered to contraction Dotter of me feel hank Laceona G W. b. W. By order of levered Officers reconfined the Obries Tee Hand Birgman & a lever havore at how to & Turable tops have for and brand. blens havore. Theloway of Examined and found to be correct. Theory Mr. Myakon Navigator.

LOG of the United States of liquips " Ssell", 3 Rate

| | | | Reading | | WIND. | | | | BAROMETER. TEMPERATURE. | State of | Forms of | Clear Oths. | te Sea. |
|-------|--------|---------|----------------------|--------------------------------------|--------------------------------|--------|-------|---------|--|-----------------------------|---------------------|-------------------------------|-----------------|
| Hour. | Knots. | Tenths. | of Patent Log. | COURSES STEERED by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. Ther. Mr. Water Walter Warter Arrange Market Mr. Water Warter | the Weather, by symbols. | Clouds, by symbols. | Prop. of Clea Sky, in 10th | State of the Se |
| A. M. | | | | Wayd | balu | 0 | | | 29485450 Hay | oct, | ency Wing | 0 | 9 |
| 2 | | | | 16 16 | 1616 | 1 | | | 2948545049 | its | " | 1 | 1 |
| 3 | | | | 16 46 | 1 | 1 | | | 2980564946 | 1. | " | 2 | " |
| 4 5 | | | | 616 | March . | 1 | | | 29 800 64946 29 805 6 4944 | " | cit) | 1 | " |
| 6 | | | | 1 3/10 | " | 1 | | | 2980054846 | " | " | 2 | , 11 |
| 7 | | | | 16 16 W | , | 1 | | | 298855 1915 | " | eig eury | 1 | 1 |
| 8 | | | | 16 orth | , | 1 | | | 2994624944 | " | wint | 5 | " |
| 10 | | | | 1/1/1 | , | 1 | | | 29.00 664643 | " | " | 5 | " |
| 11 | | | | 16,16 | , | 1 | | | 29.00 664642 | " | " | at 1 | 1 |
| Noon. | | | | Morek | , , | / | | - | 2998644642 | " | , | 4 | 11 |

| Course and distance made good since preceding noon by observations, | knots. tenths. |
|--|------------------------------------|
| (Latitude by D. R. | 0 / // |
| Longitude by D. R. | 0 , " |
| Position at Noon: Latitude by observations of ⊙ | 0 / 11 |
| Longitude by chronometer from Forenoon Observations of ⊙ | · / // |
| (Latitude by | 0 / // |
| Position at 8 a. m. Longitude by | • , ,, |
| (Latitude by | · / // |
| Position at 8 P. M. Longitude by | · , , |
| Current during the time, knots tenths per hour, setting to the | |
| Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head | 0 1 11 |
| Variation of the Compass by Amplitude ⊙ observed at Sunset, " | 0 / 1/ |
| Variation of the Compass by Azimuth ⊙ observed at " | 0 / // |
| Variation of the Compass by Azimuth ⊙ observed at " | 0 / " |
| Water expended during the preceding 24 hours, | Has gallons. |
| Water during the preceding 24 hours, | ,) " |
| Water remaining on hand fit for use at Noon, | Hoa " tons 1360 lbs. 18 " 20 70 " |
| Coal consumed during the preceding 24 hours, | tons /360 lbs. |
| Coal remaining on hand at Noon, | 18 "2070 " |
| | |

| P. M. | 16.16. | Monch | 0-1 | 29.9062 Happy | be insome of of |
|-------|-----------|---------|-----|------------------|---|
| 2 | 16,6% | 19.18 | 1 | 2995664643 | " " " |
| 3 4 | 1 | Gouth, | / | 29986 1 1 My 14 | " |
| 5 | 96 by 8 | , , | 1 | 2990 (22 Hazelet | " siscum 3 " |
| 6 | 16 8 by 6 | " | / | 29.966/18916 | 11 cigenty of 11 |
| 8 | 16,16.6 | 1" | 1 | 2996615044 | 1 1 6 9 |
| 9 | 16.16.W. | 16 allu | 0 | 29986AAA49 | 1 wind 5 1 |
| 10 | W.by. M. | 10.00. | 1 | 30006/24644 | 1 1 1 |
| Mid. | west | , | / | 30006 ceststof2 | . " " " |

under the command of Summany of Junes Day January 10th, 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Journely cloudy dight rain first hour bloudy Wlight ains from to 16. Selear harves. From Hos & all gight airs from North. Glean hander Trow 8. a. A. to Herisian Received fithers in Singuieus Light me of Ink sochs waste up my bout hereating acid Gugaged scraping & his outsite, bout Savito and broad and gume. A & Oldries Les b. Campbeel 6. ag " C. Heries, Ica come released from confinement their hims of confusement having whend beforders of Jourg Offices. I Foury of for heing absent without leave to be confined in double wours for ten (10) days when off Dock and a leave beer to, for skucking confined in double irous for ten (11) day except during working hayers byord on of Jung Offices. July Celloway Troll origine to 4 Grunally cloudy. Light variable and Sugages in Beraquing bravaise bythery "wontries of ship. at 3 as confined a Gainflee, he as Des order Secesar CA. J. Technity Fair ripuied balling and light airs from Each Bose is haves. Jour Sound his Historight The Calloway & Sine in hours CA. Freguting French W.JA Examined and found to be correct. The AM. Mafor Navigator

LOG of the United States Stegener Likely, 30

A. M.

8

10

11 Noon.

| | WIND. | | | | BAROME | ETER. | TEME | MPERATURE. | | State of | Forms of | lear ths. | e Sea. |
|--------------------------------------|-----------------------------------|--------|-------|---------|-------------------|--------------|-------------------|-------------------|----------------------|-----------------------------|---------------------|----------------------------------|-----------------|
| COURSES STEERED by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. att'd. | Air, Dry Bulb. | Air, Wet Bulb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Clear Sky, in 10ths. | State of the Se |
| Week | West | 3 | | | 29.99 | Toy | +3 | 41 | | being | cun | 9 | 9 |
| , | 1 | 1 | | - | 29.99 30 00 | | | | | " | " | 9 | 1 |
| bus. by w | " | 1-2 | | | 30 0g | | 1 | | | " | " | 9 | 1 |
| W. 76, W. | , | 1 | | | 30 00 | 56 | 12 | 40 | | 15 | óin | 9 | , , |
| W. Oy X | 1 | 1 | | | 30.02 | | | | | 11' | on em | 8 | 1 |
| W. M. X | W. 16. W | 2 | | | 3000 | - | | | | " | " | 9 | " |
| 7 | , | 2-8 | | | 30.02 | 00 | ofo | 41 | | ", | 1 | 8 | " |

| | , , | knots. | | tenths. | |
|---------------------|--|--------|-------|----------|--|
| Course and distance | made good since preceding noon by observations, | KHOIS. | , | " | |
| | Latitude by D. R. | 0 | - | -" | |
| | Longitude by D. R. | 0 . | , | " | |
| Position at Noon: | Latitude by observations of ⊙ | • | , | " | |
| | Longitude by chronometer from Forenoon Observations of ⊙ | 0 | , | " | |
| | (Latitude by | 0 | , | " | |
| Position at 8 a. m. | Longitude by | • | , | " | |
| | (Latitude by | 0 | , | " | |
| Position at 8 P. M. | Longitude by | 0 | , | " | |
| Current during the | time, knots tenths per hour, setting to the | | | | |
| | mpass by Amplitude ⊙ observed at Sunrise, ship's head | 0 | , | " | |
| | mpass by Amplitude ⊙ observed at Sunset, " | 0 | , | " | |
| | mpass by Azimuth ⊙ observed at " | 0 | , | " | |
| Variation of the Co | mpass by Azimuth ⊙ observed at " | 0 | 1 | " | |
| Water expended du | ring the preceding 24 hours, | 1 | 1 | gallons. | |
| // | Ciella during the preceding 24 hours, | ~ | m | | |
| Water remaining or | hand fit for use at Noon, | 2 | low | (" | |
| Coal consumed duri | ng the preceding 24 hours, | to | ns 22 | 20 lbs. | |
| Coal remaining on l | | 17. | 20 | 90 " | |
| | | / | | | |

| P. M. | W. Ley of | 111/2/108 | 2-6 | 30015014142 | 15 | Cia anus | 6 | 9 |
|-------|-----------|-------------|-----|---------------|-----|----------|-----|----|
| 2 | 11 | W. M. Les : | 3 | 3001584843 | - | 1 | 0 | 11 |
| 3 | w. Fu | 110 | 3 | 300/604843 | " , | 1 | 5 3 | , |
| 5 | west | wish | / | 3000604843 | " | 11 11 | 1 | " |
| 6 | 16 (4) | 16:00 | / | 3000594443 | " | " | 4 | 1 |
| 8 | With us | W. 16. W | 1 | 60005 (HOH) | " | eun minh | | |
| 9 | west | loish | / | 300153Hf of 0 | " | ois eur | 6 | 1/ |
| 10 | Wiby & | 11 1 0 | 2 | 3001504238 | , | , | 9 | .1 |
| Mid. | Co.16 cd | W. 76. LB | 14 | 3001484134 | " | " | 9 | " |

Dominander J. O. , U. S. Navy, under the command of Wednesday January 11th, , 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Proces in house. Charles to Grant bruge from toest row of to, 8. a. Enquieus Diet Gets Loes with 158 th yast. at 6: reliand to bambbut the Bergman, 1.S. a and J. & Covery, Th, as per order of confinement. at 1/30 Trugship wady Opes W time signal 6.4.5. auswered Leceived for use of crew 118 34 ebs fresh beef, 118 34 lbs vegetables & 95 eps byegd Clear hower. Confellowan of rows. a. to Meridian Separing this outside and broadseds buttery. at 8. 20 sharted Dishelling. C. CA. Declipation roun / critians h 4 Luck Partly clear coed. Light he moderate being from 4 16 W. to W. Dw. handler bail an unofficial visit to the Sound's Offices. Sugaged in scraping this outside and broad side carriages. Tear Odening 16. cd Distributing lebers house. Light airs to group breeze from U. I with Leux 491 Sisterling lelear hause. Jusign W. T Examined and found to be correct. Theo. B. M. Induson Navigator.

| Hour. | Knots. | Tenths. | Reading of Patent Log. | COURSES STEERED TO Standard Compass. | WIND. Direction by Standard Compass. | Force. | Heel. | eewny. | BAROMETER. TEMPERATURE. Height In inches. att'd. Height in inches. | State of the Weather, by symbols. | Forms of Clouds, by symbols. | Prop. of Clear Sky, in 10ths. | State of the Sea. |
|-------|--------|---------|------------------------|--------------------------------------|---------------------------------------|--------|-------|--------|---|---|------------------------------------|----------------------------------|-------------------|
| A. M. | X | Te | | W. by. of | Zuest | g g | н | 7 | 3002494138 | ha | cummunk | | 9 |
| 2 | | | | 0.09.5 | | 2 | | | 2002494138 | ,,) | am rang | 9 | 0 |
| 3 | | | | Wibyl | 1 | 2 | | | 3002484138 | , | , | 4 | 1 |
| 4 | | | | local | " | 2 | | | 300/484034 | , | , | 8 | , |
| 5 | | | | W. by . K | 4 | 2 | | | 300/494034 | " | eun | 9 | " |
| 6 | | | | ", | | 2 | | | 3001 44 40 34 | 4 | , | 9 | 1 |
| 7 | | | | Whow | 1 | 0 | | | 3002484034 | 4 | 4 | 8 | , |
| 8 | | | | W. 64. M | , | 2 | | | 30 od A 940 36 | " | , | 8 | " |
| 9 | | | | , , | W.by.K | 2-3 | | | 30,06504134 | , | 1 | 8 | 4 |
| 10 | | | | , | , | 3 | | | 3008 54934 | 4 | caw eto | 8 | 1 |
| 11 | | | | , , , | - | 3 | | | 30.08084238 | " | cis euns | 8 | " |
| Noon. | | | | Co. 16, cd. | , | 9.5 | | | 30.06544388 | Jeg. | " | 8 | , |

| Course and distance | made good since preceding noon by observations, | knots. | | tenths. | |
|----------------------|--|---------|------|---------|-----|
| | (Latitude by D. R. | 0 | , | " | |
| | Longitude by D. R. | • | , | " | |
| Position at Noon: | Latitude by observations of ⊙ | 0 | , | " | |
| | Longitude by chronometer from Forenoon Observations of ⊙ | • | , | " | |
| | (Latitude by | 0 | , | " | |
| Position at 8 a. m. | Longitude by | 0 | , | " | |
| | (Latitude by | 0 | , | " | |
| Position at 8 P. M. | Longitude by | 0 | , | " | |
| Current during the | time, knots tenths per hour, setting to the | | | | |
| Variation of the Con | mpass by Amplitude ⊙ observed at Sunrise, ship's head | 0 | , | " | |
| Variation of the Cor | npass by Amplitude ⊙ observed at Sunset, " | 0 | , | " | |
| Variation of the Cor | npass by Azimuth ⊙ observed at " | | , | " | |
| Variation of the Cor | npass by Azimuth ⊙ observed at " | | 5' | " | |
| Water expended dur | ing the preceding 24 hours, | 0 | So | gallor | 18. |
| Water Listi | during the preceding 24 hours, | 25 | 380 | " | |
| Water remaining on | hand fit for use at Noon, | 24 | 00 | 4 " | |
| Coal consumed durin | ng the preceding 24 hours, | 2 4 ton | 18 2 | 40 16 | s, |
| Coal remaining on h | and at Noon, | 15 " | | | |
| | | | | | |

| P. M. | | , 0 | | | | | | |
|-------|---|-------------|----------|--|-------------------|------|---------|-----|
| 1 | | W. 16. W | W.16. W) | 3.5 | 30.02544438 | beg | circena | 89 |
| 2 | | W. by 1 | | 3.0 | 3002584039 | " | " | 8 , |
| 3 | | W.16. W | , | 3.0 | 30 0215 of 40 3 q | " | " | 8 1 |
| 4 | | W. by. A, | , | 3.5 | 30 as 60 H /3 a | ,, , | " | 8,1 |
| 5 | | W. by g | , | 3 | 300961 Art 39 | 69 | 4 | 6 1 |
| 6 | | W. Enf. X | y ", 0 | 2 | 2009624338 | " | " | 6 , |
| 7 | | 16 16 cd | 16.16 W | THE RESERVE OF THE PARTY OF THE | 30,09621838 | 9 | " | 9 + |
| 8 | | 16W | 16 w | 14 | 30.10 62 4238 | beg. | " | 9 " |
| 9 | | W.M.W | w.M.w | 23 0 | 30,0694136 | " | Cum str | 9 1 |
| 10 | | Mal | , 1 | 32 | 30,069,036 | , | * | 91 |
| 11 | 1 | Co. bef. of | W. 64. 8 | 2 | 3011614036 | 60 | aug | 9 1 |
| Mid. | | ,, | 1 | 2 | 30.11624036 | , | " | 9 " |

under the command of Summandy . F. Jewell, U. S. Navy, Thursday January 12., 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Journe west lelear harose Districting. Bright startight Gold Fight bruge Jusign le 91 Troubt to. 8 at Light bruge from loss, blus have Districting Frow 8, a. M. to Marisian beleas wo coed Legas to shiff breeze in squall from total to grewing and in scraping outside of ship, gun carriages wiron work. Beforder of the County Officer W. A Fadden, Tais is to be confined in Double wous for tis rights for shiping w insolved to the offices of the Juck blear have Districting, Becided in Tay Dept 990 of you Year. Sent revoud of ten (10) year to U. 9 ment for Ochoing of I Daly Do abbent without leave! from Meredian to 4 Lquall flow week. Ja Williams, 250, was found dright on duty we love by order of leaundy Officer, placed in double irous, for I aluf fit came on board 6 hrs outstimes. That bet distigling at 3 % blear hawse! Toraking this outside " in ironwork inside. I. S. L. J. J. Junal Werder came in Accountage. Trouvel to. 8. C.M W. M. M. Ho H. H. Celear raived. MB/Hoygatt 7 hy worrate breeze from W. H. W. Parkerick light square Right brugs Ousign Co.J. Examined and found to be correct. The B. In Masoly

of the UNITED STATES in the harbor BAROMETER. TEMPERATURE. Direction by Standard Compass. Heel. A. M. West West 3010603936 3010593935 11.160 2 3011603835 coest 3 W.6/16 3011603890 4 6 W. by . W 3011543834 5 3012603830 W.by 16 16,00 30 14 628830 30,4623835 W.16 W. 30146/3936 9 3016614138 10 30.14694238 11 W.61 16 30 1158 4438 Noon. Course and distance made good since preceding noon by observations, knots. tenths. Latitude by D. R. Longitude by D. R. Position at Noon: Latitude by observations of ⊙ Longitude by chronometer from Forenoon Observations of ⊙ Latitude by Position at 8 a. m. Longitude by Latitude by Position at 8 P. M. Longitude by knots tenths per hour, setting to the Current during the time, Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head Variation of the Compass by Amplitude ⊙ observed at Sunset, Variation of the Compass by Azimuth ⊙ observed at Variation of the Compass by Azimuth ⊙ observed at Water expended during the preceding 24 hours, gallons. stilled during the preceding 24 hours, Water remaining on hand fit for use at Noon, tons 640 lbs. Coal consumed during the preceding 24 hours, Coal remaining on hand at Noon, 14 " 1210 " P. M. 3006614139 30 05 654 239 2 Willy of 3005 634140 hifting 3004 634541 west 30026 14440 W, MW. 3001554440 16.00 3000 554340 W by 16 3001504239 16 W. by W. 3001514184 3006 0 94 /34 30.05504035 11 10 9 W. K. W 30,00 50 \$ 036 Mid, 10 4 under the command of Opening with January 13th , U. S. Navy, , 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Junicellar al crol. Light and from bus. bless haves. From I to. S. Cell loved Light airs from coust to the Clas Lawren Current Congress Trover 8. a. M. holleridian breeze from the to to to to to to to the at 9 ", wealt Into has I togotif auceneed good from lall to a builting. J.a. Williams ? (a, was by order of its sendy Offices award the fallgeving Sunikhment. In he Staced in Jouble wous when not as work was upont for ten carp; for leaving book without Devrigines af getting Orunk afin Flay ship weade preparatory 4826 Wat 11,30 Juneal Lignal 4836 Furled sail Ing ing ship out its and saraping ironvoil itsist blear harase loung Offices Dail an official visit to Tragalify Even Meritigen to 4 .M Fair Decasant ineacher. Juitly breeze from UKled, Engager at Separing side and red leading iromorek. at 1.20 sharled fines in boilers ? 2, 35 mg Hove with a short stuf of at 3.20 hove we anchor and shifted, heref. also exposed ship in 4, fews water. Lad Tight begring U 16 w 3/4 Ed. Them Dight 1.8/48 This Draft, 13 food by 15 afts. Count of Offices Dais an official orail to Mayapil breeze from west thous light Will ains afterwards. Finished envoring Ship to full ou euch chain. at of " made Int ford auswered in affirm ating and hauled first ice toilers 2, 4, 5 % Melean haise about of watch. Susign a St. to Tesugal. Oright and cool ineacher. Light airs from 16. W. incrasing of times to moderate bruge, lelian charace. 1 from d durign 4 Examined and found to be correct. Theo. B. M. Madon a

LOG of the UNITED STATES soredied the harbor of BAROMETER. TEMPERATURE. Height in inches. att'd. Air Bully att'd. A. M. W. Kw) beur current 9 Bo as 5 + 39 85 30 00 00 3930 cuy 2006033835 16 W. 6. W 30.06 of 63 af 3 2 30.06483633 No. W. Cy. Cel 30 of 483633 W. Kill 30,0503634 W.byl 30 14 503632 80 15 5 43 435 30 19 58 2034 10 11 30.15 60 4 138 16.w. by 16 30,14614238 Noon. Course and distance made good since preceding noon by observations, tenths. Latitude by D. R. Longitude by D. R. Position at Noon; Latitude by observations of ⊙ Longitude by chronometer from Forenoon Observations of \odot Latitude by Position at 8 a. m. Longitude by (Latitude by Position at 8 P. M. Longitude by Current during the time, knots tenths per hour, setting to the Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head Variation of the Compass by Amplitude ⊙ observed at Sunset, Variation of the Compass by Azimuth ⊙ observed at Variation of the Compass by Azimuth ⊙ observed at Of O gallons. Water expended during the preceding 24 hours, during the preceding 24 hours, Water remaining on hand fit for use at Noon, Coal consumed during the preceding 24 hours, Coal remaining on hand at Noon, P. M. 16.16 W 30,16601239 3019/02/239 1610 3019634238 Kill. Kw. Suf to 302/63/339 2 3022634258 8023624238 30046/4258 May w 3025604238 Calm 3025604239 0 W.64 16 30an 59 H23 9 0

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Mid.

3000 91139

3025594138

under the command of Summany Les Seesen , U. S. Navy, Caturday January 14 51888. Commences and Centil Class that bless hower Second Troubly to 8 al Seuf Me. Sh Jewage clear, but hazy. lewwelles clouds Dright and coef Light brug fines Wheel blaced of Wall will so sentrep change for being desorberly on berek dick. Til erty party returned. Received in Payd of for iskine to creed 118 4 lets each of fresh by and vegetables and 95 ibs fresh bread. Clear house pursuenced scraping inpper whits Stripe outsilv. Ourseyn a. J. rows. W.M. no Maridian an decreasing hocloudy inegaties. Very light more feeling last Back of last hour of water gretty brenze from W. I a shifting last hour to to W Deleased & Coallace, S. & Theeting S. From configurent freshored them to out Received in Equipment Dight a gas alcohol Mr 5 gas Rais Friese Dif. leleus harose Bugaged in scraping upper white strips " Danthing iron - work row Meridian ho 24 Theyouly fair " coel. Light abits of seems during full hour freets to light breeze from to bed Befores of Court Offices & Guden In grow rated lead I of the Tchrough fra rated quarter June 10th wish. Eligaged scraping vakit " cleaning ship, Cheirned to Gutracker + o fens + "Harring Cape as charto fens erry his he, corrected. Received on board for use in quit held for the mild the house last how hours Glear hairse Reconfined for williams of a williams of a Mail Fathy From I Tak the Mit english and from the Court Court house Examined and found to be correct. Theo. B. M. Harry Navigator.

Low of the United States Sugues "Essey", 3 Rate,

| - | 0 | | | | | | - | | The second secon | | 1 | - |
|-------|--------|---------|------------------------|--------------------------------------|---------------------------------------|--------|--------|---------|--|-----------------|----------------------------------|------------------|
| Hour. | Knots. | Tenths. | Reading of Patent Log. | COURSES STEERED by Spandard Compass. | WIND. Direction by Standard Compass. | Force. | Heel. | Leeway. | Height Ther. att'd. Temperature. Height in inches. att'd. Temperature. State of the Weath by symbol Temperature. State of the Weath by symbol Temperature. State of the Weath by symbol Temperature. Temperature. State of the Weath by symbol Temperature. | her, Clouds, by | Prop. of Clear Sky, in 10ths. | State of the Sea |
| | - | - | | mis read_ | | | | | | | | 00 |
| A. M. | | | | 16.60 | balu | 0 | | | 30 206 04 138 bee | w cum | 11/ | d |
| 2 | | | | , " | ,, | 0 | | | 302061H138 | 7 | 18 | 1 |
| 3 | | | | Now by w | , | 0 | | | 3000604038 " | " | 9 | " |
| 4 | | | | W/6 cd | " | 0 | | | Bi24593936 " | " | 9 | 1 |
| 5 | | | | How by we | | 0 | | | 3024603936 | 1 | 9 | 1 |
| 6 | | | | , , | No w by w | 1 | | | 3024593936 | our th | 8 | " |
| 7 | | | | 16 16 W | No. No. W | 1 | | | 30 35 59 4034 4 | , | 9 | " |
| 8 | | | | , , | ,, | 1 | | | 302/604239 " | ais | 8 | " |
| 9 | | | | 16 cd | 16. W | 1 | | | 30 29/58 H238 6 | um | 10 | " |
| 10 | | | | W.by. 9 | west | 1 | | | 30.28 65 4339 | cis eu | 9 | " |
| 11 | | | | , | ." | 1 | | | 3428 634440 | " | 9 | " |
| Noon. | | | | , | " | 2 | | | 30.2469.1541. | 1 | 9 | " |
| | | | | | | | Markey | | | | | |

| Course and distance | made good since preceding noon by observations, | kno | ts. t | enths. | | |
|---------------------|--|-----|----------|----------|----|--|
| Act . A. II | (Latitude by D. R. | 0 | , | " | 5. | |
| | Longitude by D. R. | • | , | " | | |
| Position at Noon: | Latitude by observations of ⊙ | 0 | , | " | | |
| | Longitude by chronometer from Forenoon Observations of | · ⊙ | , | " | | |
| | (Latitude by | | . , | " | | |
| Position at 8 a. m. | Longitude by | | , | " | | |
| | (Latitude by | | , | " | | |
| Position at 8 P. M. | Longitude by | | , | " | | |
| Current during the | time, knots tenths per hour, setting to the | | | | | |
| Variation of the Co | mpass by Amplitude o observed at Sunrise, ship's head | | , | " | | |
| Variation of the Co | mpass by Amplitude ⊙ observed at Sunset, " | | , | " | | |
| Variation of the Co | mpass by Azimuth ⊙ observed at " | | , | " | | |
| Variation of the Co | mpass by Azimuth ⊙ observed at " | | " | " | | |
| Water expended du | ring the preceding 24 hours, | | 280 | gallons. | | |
| Water | during the preceding 24 hours, | | , | " | | |
| Water remaining or | a hand fit for use at Noon, | / | 84a | " | | |
| Coal consumed duri | ng the preceding 24 hours, | | tons //2 | 20 lbs. | | |
| Coal remaining on l | hand at Noon, | 12 | " 20 | 90 " | | |
| | | | 1 | | | |

| P. M. | 1 | | | | 1 |
|-------|------------|-------|-----|----------------|-----------------|
| 1 | W. Inf. of | week. | 2 | 30.21584642 | As cineum 8 9 |
| 2 | wish | | 2 | 30,200 8 48 43 | 1 , 8 1 |
| 3 | , , | " | 2 | 3020584843 | , 8 , |
| 4 | W. by X | " | 2 | 30,9624843 | 1. 18, |
| 5 | W. 16.10 | " | 2 | 30,854646 | 1 1 8 11 |
| 6 | Wey 9 | 1 | / | 30.18564542 | " cum 9 |
| 7 | Mole | balul | | 30,185645HR | beel none 10, |
| 8 9 | n 1/1 | | 0 | 3020624442 | 17 10 11 |
| 10 | How. by 16 | " | 0 | 3025 65 4643 | been organy 6 " |
| 11 | 14 4 | " | 0 | 3023642643 | 1 1 6 1 |
| Mid. | Mobile Co | 16.6 | 0 | 30,23684644 | 1 1 1 1 |
| | Gash | 1,75 | 111 | 3-2340 4543 | 1 1 1 1 1 |

Tournander January, Jewell, U. S. Navy, Junday January 15th, 1888. under the command of RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Commences and Unities H. Cold Salear Hawse! of A.S. Sichery From H to 8 Gul Diasant Light ains from 16 w 16 Held. Clean howere Received W. of Hair. Trous 8. a. M. ho Meridian General Way local af guarters and inspection. Deleased a Bergman 15. a and Confinence of Satheir turns of confinencent having expirit by order of Court of Jones Clear have From Herebiay to H Jak truzy from week letens haven From H to f P. M. dight airs from week at semich dentell from Jais and ga wieliams is a junt out is in our or per orth at 6 do from Trouvet to soler for safe Reeping by outs of Dung Office Gran Lawrence hour lefter have Cs. F. Lechyon Examined and found to be correct. Theo. B. In Shaffer Navigator.

LOG of the United States Steamers of State, 3 Rate,

| | 1 | | | | | Contract of | | | / | | | | |
|-------|--------|---------|---------------------------------|--------------------------------------|---------------------------------------|-------------|-------|---------|--|---|------------------------------------|----------------------------------|-------------------|
| Hour. | Knots. | Tenths. | Reading of Patent Log. | COPRSES STEERED by Standard Compass. | WIND. Direction by Standard Compass. | Force. | Heel. | Leeway. | BAROMETER. TEMPERATURE. Height In inches. Att'd. Height In inches. Att'd. Att' | State of the Weather, by symbols. | Forms of Clouds, by symbols. | Prop. of Clear Sky, in 10ths. | State of the Sea. |
| A. M. | | | | 16 16 6 | banni | 0 | | | 302210 AHH2 | ba | cuu | a | d |
| 2 | | | | Topsel | yana " | 0 | | | 3023414442 | , | winit | 4 | , |
| 3 4 | | | | East | , | 0 | | | 30244/H3H0 30234/2H3H1 | 1 | 1 | 8 | , |
| 5 | | | | E KE | , | 0 | | | 3021414341 | 1 | our | 8 | , |
| 6 | | | | 166 | 6% 8 | 0 | | | 30204/434/ 30204/1840 | , | cin cull | 4 | 1" |
| 8 9 | | | , | MAG | 1 | 1 | | | 302060 Af42 | l'and | 1 | 46 | 1 |
| 10 | | | | 168 | " | 1 | | | 30.20644442 | van | " | 1 | " |
| Noon. | | | | 16 16 6 16 16 | 1 | / | | | 3018694945 | , | 1 | 3 | " |
| | | | | | | 100 | | | | | | | |

| Course and distan | ace made good since preceding noon by observations, | knots. | tenths. | |
|--------------------|--|--------|------------|-----|
| | (Latitude by D. R. | 0 , | " | h-1 |
| | Longitude by D. R. | 0 , | " | |
| Position at Noon | Latitude by observations of ⊙ | ٠, | " | |
| | Longitude by chronometer from Forenoon Observations of ⊙ | 0 , | " | |
| | (Latitude by | 0. / | " | |
| Position at 8 a. m | Longitude by | · , | " | |
| | (Latitude by | • , | " | |
| Position at 8 P. M | I. Longitude by | • , | " | |
| Current during th | ne time, knots tenths per hour, setting to the | | | |
| Variation of the | Compass by Amplitude ⊙ observed at Sunrise, ship's head | 0 / | " | |
| Variation of the (| Compass by Amplitude ⊙ observed at Sunset, " | . , | " | |
| Variation of the | Compass by Azimuth ⊙ observed at " | . , | " | |
| Variation of the | Compass by Azimuth ⊙ observed at " | 20 | " | |
| Water expended d | during the preceding 24 hours, | 080 | gallons. | |
| Water Dis | tills during the preceding 24 hours, | 1/40 | " | |
| Water remaining | on hand fit for use at Noon, | 92 | od " | |
| Coal consumed du | uring the preceding 24 hours, | tons | 1200) lbs. | |
| Coal remaining or | n hand at Noon, | 12 " | 890 " | |
| | | | / | |

| P. M. | , | 1 | | | , |
|-------|------------|----------|------------|------------|-------------|
| 1 | 16 w. by w | Space o | 30,1368 | Total been | Eagenry 8,9 |
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| 3 | 1/ 0" 1/ | 0 200 | 3010410 | 5249 1 | , 4, 1 |
| 4 | 164, by 10 | 999 / | 3010410 | 5249 4 | , 3/1 |
| 5 | Parel | Ejalur o | 30,00/6 4/ | 5248 " | " # 1 |
| 6 | 1990 | 16.8. | 3003650 | | , 3, |
| 7 | 106.64.9 | 106. | | /// | " " |
| 8 | , | , | 2998610 | | 1 8 11 |
| 9 | 1 | , 2 | 299560 | 1, | any q " |
| 11 | 21/8 | , 2 | 299534 | | " 9 " |
| Mid. | 1 938 | , 2 | 299358 | 1946 | cincum 2 1 |
| | 10.09 | | 298959 | 15 | cum 0 11 |

under the command of Summary let, J. S. Navy, Summary 16th, 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Douwenger and luctive of Officers. Trouv H. Lo & a Might airs from the Cless region aliened, Id & Maddew Lais, Ga Williams 2. Ga and I & Course of as Des orfor they at of Dress & him signal 6 4 5. auswered. Peliaged & Lagen 2.6. I he grant of July he being saber Leceived in Pay Dicht for living to crew 1/83/445 each of fried row 8. a. A. no Meridian ley kul hower at 3 mentered at quarters, By order of squenauter confinis I. Walls In our Gread and water for threw days, for disorderly coulded and fighting. Overhauled Jun colta Drivers But electric batteries butantes Agazing and cheel room flood cocks Jany of wen from hore engaged in cauching extrict of ship at 10 30 made Introgatory signal 610 of Brookeys answered 904 Called are hand wunkent sail. Thrunair Jubrat Walf yout to Dear Trous Atribiace to of the balus and light air fiver the fair fines the bless here of the fair and below the rigging Sections. how the f. I bale Glight and firm how From f. Ahy Mand. Light to motorate breed from Sisterling. Letter hawse. Curing Con Examined and found to be correct. Theo. B. In Mason Navigator

LOG of the United States Steagues Essel , 3 Rate,

| | | | | | - |
|-----------------|---|---------------------------------------|--------|--|-------------------|
| Hour. Knots. | Reading of COURSES STEERED by Standard Compass. | WIND. Direction by Standard Compass. | Force. | BAROMETER. TEMPERATURE. Height Ininches. att'd. Ther. att'd. Ther. att'd. There in inches. att'd. There is in inches. Temperature. State of the Weather, by symbols. There is in inches. The inches is inches in inches in inches. The inches is inches in inches in inches. The inches is inches in inches | State of the Sea. |
| A. M. | LE of 16 | 16.8 | 2-3 | 29.86 605, 48 ver wind 09 | 1 |
| 2 | 16 by 6' | , | 2-3 | 31.86605250 1 10 | , |
| 3 | 16 8 by 16 | , | 2 | 2985605050 , , 0, | , |
| 4 | 76 W. 64. 1 | _ // | 1 | 2985605200 " 10 | " |
| 5 | East | Bash | 1 | 2985635150 , 10 | ,, |
| 6 | & by X | | 1 | 2984635150 receil 11 0 | |
| 7 | 0 1 | , , , , | 1 | 2985625 150 ciny 0 | 1 |
| 8 | 9866 | Call | 0 | 2986615150 | 1 |
| 9 | de. | -" | 0 | 2988615149 " " " | 1 |
| 10 | 9646 | 96 | 1 | 2988645150 red. , 0 | " |
| 11 | west | W. No. w | 1 | 2984645352 ", 0 | " |
| Noon. | 16. W. by CQ | 16.00 | 2 | 29.85 65 5H 50 bed 10 | " |
| | | | | | |

| Course and distance | made good since preceding noon by observations, | | knots. | | tenths. | |
|----------------------|---|----------------|--------|-----|-----------|--|
| | (Latitude by D. R. | | 0 | , | `,, | |
| | Longitude by D. R. | | 0 | , | " | |
| Position at Noon: | Latitude by observations of ⊙ | | 0 | , | " | |
| | Longitude by chronometer from Forenoon Obs | ervations of ⊙ | • | , | " | |
| | (Latitude by | | 0 | , | " | |
| Position at 8 a. m. | Longitude by | | • | , | " | |
| | (Latitude by | | • | , | " | |
| Position at 8 P. M. | Longitude by | | 0 | , | " | |
| Current during the | time, knots tenths per hour, sett | ing to the | | | | |
| Variation of the Con | mpass by Amplitude o observed at Sunrise, ship' | 's head | 0 | i | " | |
| Variation of the Cor | mpass by Amplitude o observed at Sunset, | " | 0 | , | " | |
| Variation of the Con | mpass by Azimuth ⊙ observed at | " | 0 | , | " | |
| Variation of the Con | mpass by Azimuth O observed at | " | • | j - | " | |
| Water expended dur | ring the preceding 2) hours, | | (| 38 | Ogallons. | |
| Water Dio | talled during the preceding 24 hours, | | | 88, | 0 " | |
| Water remaining on | hand fit for use at Noon, | | 21 | 10 | 0 " | |
| Coal consumed duri | ng the preceding 24 hours, | | ton | 000 | 00 100. | |
| Coal remaining on h | nand at Noon, | | // " | 10 | 50 " | |
| | | | | | | |

| P. M. | 1 | 0 | | | | |
|-------|----------------|------------|-----|-----------------|------------|--------|
| 1 | Mwell us | Mu | 8 | 3980-655654 | As circu | us 1 |
| 2 | W Kous, | W. How | 2 | 2984605654 | been " | 1 |
| 3 | 16 W. Lef. 16 | 11 | 2 | 2990655553 | oct aux is | |
| 4 | W.ful A gowers | loglyw . | 0 | 2991645553 | | |
| 5 | gotteth | 996 | / | 29.95635452 | by cin a | 5 |
| 6 | 1 11 10 | 1 | 1 | 29.94635452 | been aux | ind 3, |
| 7 | 16, W, Ly. Co. | 6", | | 299/636452 | , , | H |
| 8 | 16. 60 | Corch Call | , 0 | 29.99 635452 | , , | 6 |
| 9 | 1 | Naliw | | 3001626462 | 7 1 | 4 |
| 10 | Horek | " | 0 | 30 of 6 20 3 51 | 15, | 9 |
| 11 | 1 Jours | Hord. | | 30 uf 6 0 52 30 | , ceu | 9 9 |
| Mid. | " | , our | 111 | 3004605200 | 1 " | 17 |

Tuesday January 14/1, 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Openeneuses, and butil HCl 1 greek breeze from to & Clear harose Districting. Hellowed topse balunlash hour beleas hower at 4. Es shapped distribuy. The handes beging fuel Released W. J. A. Fadora, Ja 15, Ja Williams, 25 a 40 a leaugher La, Des order at 6: . Lighty row of a the Meritian balu, light airs of Buy from the he had at 9 and wareised bottalion fang from show at work caulking out-Side of this Seul a reward of ten (0) You the U. I Swell for the delivere on to and of Auchar Repell, Oiles, about without lease Free in house, Anton chair on top Thom Meridian to 4, J.M. Cartly afear first part, generally overcast with rais beflerwards, Gening receipmance. Fight ain to briefy from to w. to W. How Galen last hour. The armed ship for need suit of awaings. Bleared harder Gaulkers at work outseld quiled in Engos Del came on board. Captain of & I M 9 Lang called. Clear, house at Trouvely cloudy, have Light airs firmed of the hot Jung firmer show at learning engines until of the Jung have from the Misting has been surjected to the surje Trout the f. IA From & Port hour bright starlight level letters county nings bays 1st hour leulew till last hour, when lightain came out from both. lelear hourse. Ousign u offen. Examined and found to be correct. Theo. B. In Mason Warigator.

| | 1 | | | | 1 | | | | " | 0 | Y | | '/ | 4 | 1 | |
|-------|--------|---------|----------------|---|--|--------|-------|---------|------------------------------|----------|----------------|----------------------|-----------------------------|------------------------------------|----------------------------------|-----------------|
| - | V | 1 | | rman Cm i man | Thomas | , , | | 1 | 10 | 1 | 1 | 1 | // | 3 | D | 4 |
| LOG | OI | th | e UN | ITED STATES | has bed | M | ye. | 2/9 | oh | | |) | | , | Tre | ite, |
| // | to | X | en | ar my | Cacon) i | 1 | | 1 | 100 | | | | | | | |
| | | | Reading | | WIND. | | | | BAROMETER. | . TE | MPERA | | State of | Forms of | Clear oths. | he Sea. |
| Hour. | Knots. | Tenths. | Patent Log. | by Standard Compass | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height Ther in inches. att'd | Air, Dry | Bulb. Air, Wet | Water at Surface. | the Weather, by symbols. | Forms of Clouds, by symbols. | Prop. of Clear Sky, in 10ths. | State of the Se |
| A. M. | X | 1 | | was reas | 1 | - | | | | | | | | | | 1 |
| 1 | | | | Wolf | 10, aleul | 0 | | | 30.0560 | 250 | 250 | 0 | 4 | coursets | 8 | 9 |
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| 9 | | | | Card | 11 | 1 | | | 30,463 | 1 | / / | | , | , | M | " |
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| 11 | | | | 9849 | 1" | 1-2 | / | | 301/60 | | | 8 | , | " | 6 | " |
| Noon. | | | | 16646 | Horeh | 1-21 | | | 30,1564 | 45 | 14 | 4 | , | , | 6 | " |
| | | | | , | | | | | | | | | | | 1 | |
| | Cours | e and | distance r | nade good since preceding no | on by observations, | | | | k | cnots | 3. | ten | ths. | | | |
| | | | 1 | Latitude by D. R. | | | | | | 0 | , | , | , | | | |
| | Positi | on at | Noon: { | Longitude by D. R. | | | | | | 0 | , | | " | | | |
| | COLL | on ac | | Latitude by observations of | | | | | | 0 | , | | " | | | |
| | | | | Longitude by chronometer | from Forenoon Observati | ons of | 0 | | | 0 | , | | " | | | |
| 1 | Positi | on at | 8 a. m. | Latitude by Longitude by | | | | | | 0 | | | " | | | |
| | | | | Latitude by | | | | | | 0 | , | | " | | | |
| 1 | Positi | on at | 8 P. M. | Longitude by | | | | | | 0 | , | | " | | | |
| | Curre | nt dur | ing the ti | | enths per hour, setting to | the | | | | | | | | | | |
| | | | | ipass by Amplitude ⊙ observ | ved at Sunrise, ship's head | 1 | | | | 0 | , | | " | | | |
| | Varia | tion o | f the Con | npass by Amplitude o observ | ved at Sunset, " | | | | | 0 | , | | " | | | |
| | Varia | tion o | f the Con | npass by Azimuth ⊙ observed | l at " | | | | | 0 | , | , | " | | | |
| | Varia | tion o | f the Con | npass by Azimuth o observed | d at " | | | | | 0 | 2 | 00 | " | | | |
| | | | nded duri | ing the preceding 24 hours, | | | | | | 6 | 10 | 0 | gallons. | | | |
| | Wate | | | during the prece | ding 24 hours, | | | | | 1 | ? / | 2 | 0 | | | |
| | | | | hand fit for use at Noon, | | | | | | ~ | a | 12 | - 11- | | | |
| | | | | g the preceding 24 hours, and at Noon, | | | | | , | 0 | tons | 20 | o lbs. | | | |
| | Coar | · | ing on in | and at 1900i, | | | | | | | | 1 | | | | |
| P. M. | | | | 1/1 | 1-1-1 | T | | | | T | | | | | | |
| 1 | - | | | 9961 | 9,96 | 2 | | | 301214 | 23 | 24 | 8 | Lau | circum | 5 | 9 |
| 2 | | | | 16160 | 1616,6 | 2 | | | 30/169 | 90 | 34 | 9 | " | 1, | 5 | " |
| 3 | | 1 | | 16 bef. W | " | a | - | | 30116 | 50 | -14 | 6 | " | The rient | 3 | 1 |
| 4 | - | 1 | | 1 | 1" | 2 | | | 301168 | 20 | 04 | 6 | , | dir. | 3, | , |
| 5 | - | - | | 1 " | 16 pres | 2 | | | 301/60 | | | | , | " | 6 | , |
| 6 | 1 | - | | Opres | , , | 2-3 | 3 | | 30,25 | 84 | 14/4 | 3 | " | " | 8 | 1 |
| 7 | - | | | 1 | 1 | 2 | | 1 | 30,400 | | | | , | eig otr | 8 | 0 |
| 8 | 1 | | | 8. 64 9 | 616 | 2 | 1 | - | 301650 | 1 | 1 | 1 | " | . " | 8 | 1 |
| 9 | - | | | S. or | 0 160. | 1 | | - | 30 1860 | | - | | , | cescus | 3 | , / |
| 10 | | | | Ely 16 | 6'aun | 10 | | | 30/860 | | | | 1 | aus | W | 1 |
| Mid. | 1 | 1 | | N. Co | " | 0 | | | 30,000 | | | | " | " | 6 | " |
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| A TON | 1 | - | | | The state of the s | | | | | | - | | - | | | |

Toumander Leverel, U. S. Navy, Vacant Jailuary 18th, 1888. under the command of RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Dommencer and Cutil H. Ce / Hy fooming grueracy clear Light air from the to East through to Hout working gauge from shore came on board Persever in Payd Det, 18 4 14 racket fresh blef to orgetables & 95 lbs fresh bread. Eleas Laurel rows of the Heridian Seasont, Cumsto Win court Light variable aid to breige Hay after 1st hour. at 2. lauged bactaling for dies from this vessel an ordered to return to the truited Thates org Surage. There Levorkenew, carelling ship outside Enfat work in Guys Lept. Hear harry Fair decreasing to cloud weather hay Fight brug from 996 row pereline to first hour by to the remainders of watch. Workenen from shore caucking Poutsito a repairing bailers, leleur haise. Jewnall clear Light haze Bright Wood How showing latter Park tight to 95thto been from Both. Win cum Wats cloud Deceded the following thous Bessevery Construction 300 Us White Lead, 200 Us Law Black, 145 the Chelsed auch 10 Jaus Law Lewest Oil 15 Jaus Soiles Timees Oil, 10 gals Jun Denting, 25 Juls Cohety 7 of the Tythe, I tog Vaint Brushes, o gaves Japan Dies. Sear Kniver Fruk February Daity on shore! Gusign Wille Trous & The Mideright Guisign Would have through hage traits and from thorough hage traits 1. S. al was descoured to have lift the ship exist out Dereccision. Examined and found to be correct. Theo. B. Freud Examigator.

LOCA of the United States Steamed Steel, wind.

WIND. BAROWETER TEMPERATURE

| | | | | | WIND. | | | | BAROMETER. | TEMI | PERAT | TURE. | State of | E | lear ths. | Sea. |
|-------|--------|---------|---------------------------------|--------------------------------------|-----------------------------------|--------|-------|---------|-------------------------------|-------------------|-------------------|---------------------|---|------------------------------------|------------------------------|--------------|
| Hour. | Knots. | Tenths. | Reading of Patent Log. | COTRSES STEERED by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. Ther att'd. | Air, Dry Bulb. | Air, Wet Bulb. | Waterat Surface. | State of the Weather, by symbols. | Forms of Clouds, by symbols. | Prop. of Cle Sky, in 10th | State of the |
| A. M. | | | | W by Me | west | 1 | | | 30 125 8 | 246 | ++ | | being | cis cua | 3 | 9 |
| 2 | | | | week | · ''/ () | 1 | | | 30,1208 | | | | " | , | 3 | 1 |
| 3 | | | | 16 W. by W. | W. H. W | 1 | | | 30,1367 | | | 1 | " | 1 | 13 | 1 |
| 5 | | | | 16.W.by W) | K.W. | 1 | | | 30 1354 | | | | 1 | com wind | 6 | 11 |
| 6 | | | | Meles by to. | 621.1 | 1 | | | 301156 | , , | / . | | 4 | 7 | 6 | , 4 |
| 7 8 | | | | 3 w | How! | 1 | | | 301156 | | | | 1 | 1 | 2 | 1 |
| 9 | | | | , | Calin | 0 | | | 30,460 | , | | , | " | cis eum | 3 | " |
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| 11 | | | | , | " | 0 | | | 301360 | | | | " | , | 1 | 1 |
| Noon. | | | | , | " | 0 | | | 201064 | 52 | sty | | 13 | , | 9 | " |

| Course and distance made good since preceding noon by observations, | knots. | tenths. |
|--|--------|--------------------------------------|
| (Latitude by D. R. | 0 , | " |
| Longitude by D. R. | | " |
| Position at Noon: Latitude by observations of ⊙ | | " |
| Longitude by chronometer from Forenoon Observations of © | 0 | , ,, |
| | | , ,, |
| Position at 8 a. m. { Latitude by Longitude by | | , ,, |
| | | , " |
| Position at 8 P. M. Longitude by | | , " |
| | | |
| | • | , ,, |
| Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head | 0 | , ,, |
| variation of the Compass by Ampirtude & observed at Sunset, | 0 | , " |
| variation of the Compass by Azimuth O observed at | | , " |
| variation of the Compass by Azimuth & observed at | | |
| Water expended during the preceding 24 hours, | 00 | O gallons. |
| Water during the preceding 24 hours, | 16, | 10 |
| Water remaining on hand fit for use at Noon, | 10- | 60 gallons. 40 ". 1200 lbs. 890 " |
| Coal consumed during the preceding 24 hours, | tons | 200 lbs. |
| Coal remaining on hand at Noon, | 10 " | 940 " |

| P. M. | I. ed | ddu | / | 30,05685044 | o _ cum daine | od |
|-------|---------------|-------|---|--------------------|---------------|-----|
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| 4 | "ides | balu. | / | 30.02624946 | " eis cura | 01 |
| 5 | wish | | | 30,03634946 | f. singens | 3," |
| 6 | 168 | Cauch | | 30036 149 46 | , , | 9" |
| 7 | 16.0 | Joann | | 30056 049 46 | 1. s on our | |
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| 11 | 111411 | 1 | 0 | 3000 58 st 6 st of | , , | 18, |
| Mid. | 16 W. Eng. 10 | 1 | 0 | 3000 40 4543 | , , | 6 " |

Thursday Jacuary 19th, 1888. under the command of RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Commences and white of a My cook and blear have your It for 8 and where cally Though several serve in harbor Fiberty Carty referred Caretin and workenew in Engineers Sept commune provide at of 30. Received in Part dept for issue to crew 118 14 lbs each of prest but Wagetalles was the friend for having been absent from chiperittout permission. Gross in have at end of water. Ousign (13/1) row & I The Meridian plouse of hazy weather bayer By order of Collies Offices released to blociels, by 9 6. from confinement by restoy to duty, by Same auchority & & Despris I Sa, to be confined from Muntilar hours' in the quaring Those workinen at workin Frustruction by Engineers Departments. Painting spart Jung Officer left the ship officially learn hairse officially. Clear house Cauchen at cook on here we workwen in enging to first con Jos Freeholm round to f. airs from west Georgener is I. M. Sader Pars, a Complen fra Ja Williams, 200, J. Sesbois, 95. at of Cowery, u. 9MS! Clear hower. From 8. Oh hi Midnight clear blear, Rajon Co. J. Leguing Examined and found to be correct. 8. Laceo Topy 9

LOCATE STATES Steamings Esself, 3d Rate,

| | | 1 | Reading | WIND. | | | | BAROMETER. TEMPERATURE. | State of | Forms of | lear ths. | o Sea. |
|------------|--------|---------|--------------------------------|-----------------------------------|--------|-------|---------|--|-----------------------------|------------------------|----------------------------------|----------------|
| Hour. | Knots. | Tenths. | of Patent Log. Light Year Log. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height Ther. All Market | the Weather, by symbols. | Clouds, by symbols. | Prop. of Clea. Sky, in 10ths. | State of the S |
| A. M. 1 | | | 4160 | Galul | 0 | | | 30.0060 ANH | dis. | amoint | 4 | 9 |
| 2 | | | 4 | , | 0 | | | 30,00,08 4644 | , | , | 4 | , " |
| 3 | | | , | , | 0 | | | 30,00584543 | , | , | 7 | , |
| 4 | | | 1 " / | , | 0 | | | 2998514443 | , | " | 4 | " |
| 5 | | | 16 W. by 16 | . " 0 | 0 | | | 299857/4543 | being | curs | 6 | " |
| 6 | | | W.16 co | W. Mow | 1 | | | 29.9856 Aist3 | 1 | on ceun | 6 | , |
| 7 | | | W.649 | 1 | 1 | | | 2998604543 | " | , | 2 | 11 |
| 8 | | - | URW. | 4 | 1 | | | 30.00604543 | " | " | 6 | 1 |
| 9 | | | W.by 9 | loish | 1 | | | 3000624543 | " | cit cut | 9 | 4 |
| 10 | | | west, | " | 1 | | | 2999 6544/1 | 1 | , | 9 | 4 |
| 11 | | | W. by 16 | -1 | 2 | | | 29.96 bt 49 to | to | , | 8 | " |
| Noon. | | | , | , | 23 | | | 2993645045 | " | , | 0 | " |

| Course and distance made good since preceding noon by observations, | knots. tenths. |
|--|------------------------|
| (Latitude by D. R. | . , " |
| Longitude by D. R. | . , " |
| Position at Noon: { Latitude by observations of ⊙ | . , , |
| Longitude by chronometer from Forenoon Observations of ⊙ | 0 , " |
| (Latitude by | 0 / // |
| Position at 8 a. m. (Longitude by | · , , |
| (Latitude by | . , " |
| Position at 8 P. M. Longitude by | 0 , " |
| Current during the time, knots tenths per hour, setting to the | |
| Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head | 0 , " |
| Variation of the Compass by Amplitude ⊙ observed at Sunset, " | 0 / " |
| Variation of the Compass by Azimuth ⊙ observed at " | . , " |
| Variation of the Compass by Azimuth ⊙ observed at " | 0.0 |
| Water expended during the preceding 24 hours, | 380 gallons. |
| Water during the preceding 24 hours, | , |
| Water remaining on hand fit for use at Noon, | 1460 ". |
| Coal consumed during the preceding 24 hours, | 1460 ". tons 1360 lbs. |
| Coal remaining on hand at Noon, | 9 " 1990 " |
| | |

| P. M. | 6141/2 | Ugest | 2 | 10.00 15 : 1= | to cincure 3 of |
|-------|-----------|--------|----|-----------------|-----------------|
| 2 | My Mo W. | Hord | 2, | 29.93 6550 fts | sep our rivel o |
| 3 | Costs | 1 | 2 | 29.92692613 | 15,0, |
| 4 | , | " | 3 | 24,92594543 | och is ment |
| 5 | " | " | 2 | 30.06604441 | been or on I |
| 6 | 16, 16, w | 1 | 2 | 300659H5H2 | eigenen 2, |
| 7 | 16 pel 6 | " | | 29.93 54 144 | " cum rial " |
| 8 | Parel | " | / | 299554643 | ven , 0 11 |
| 10 | 1616 | Call | 10 | 3002554543 | tes . 0 " |
| 11 | My by w | 1 your | 0 | 80 of 5 of 4 42 | , 2, |
| Mid. | bout | | 0 | 300454341 | 10 101 |

Tribay January 204, 1888. under the command of RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Junewees and butie H a Trurally dear balus blear haises. Jusign Col Fair iventher Right aus fine Ut to at of the sent hailwaken gung ashore to workwen began caucking ship & boiles waken pegan work on boiles. Painting & pars lelyas harver Receiveden Pay Dept for issues to cred 95 ebs ful row & a. The Merifian from lovet, fryshening mondo and of evalet. Clear house at 9:30 unstered at quarters Believed a Gamphier of I Coury, In from confirment their terms, having expired. Saulders from should work on here we deck. Worsemen fever shore at work in Gugis Dept. Souleund Whrew overhoan two caus of Jourators W/ lb Can of Galun Leed Ce Johnson Crow Meritian to 4. Of Overcast coedwick occasional passing stowers. Light he gruth breeze from week " Bouch. Tent evaching Darty on chary Workenen from Show careleing ship " repairing boiler lelias have. Now H. to S. J. Jamesally cloudy leval Light breeze frout Hout. Clear house, Placed & General Jais, under soutrepcharge he being unter the influence of ligues. Received on board its Sourtweeters department 200 les White Jims 3 gards Doiled Oil Gerand Prives, of Brus Locks oil Feeds of James Locks oil Trow 8. Of the Midwight Just hour Calde and leight aus fins Hour Calle and leight Dusing a. 1 Examined and found to be correct. to Ballowfay and Navigator.

| Hour. | Knots. | Tenths. | Reading of Patent Log. | COURSES STEERED by Standard Compass. | WIND. Direction by Standard Compass. | Force. | Heel. | Leeway. | Height Ther. TEMPERATURE. Height In inches. Height att'd. | State of the Weather, by symbols. | Forms of Clouds, by symbols. | Prop. of Clear Sky, in 10ths. | State of the Sea. |
|-------|--------|---------|------------------------|--------------------------------------|---------------------------------------|--------|-------|---------|--|---|------------------------------------|----------------------------------|-------------------|
| A. M. | | | | 16 w. by 16. | 16 16 W. | 2 | | | Bo as 55 4 4 42 30 as 55 4 3 41 | by | on cur | 3 | d |
| 3 | | | | No No. W. | 7 | 2-1 | | | 3004554341 | , | ens, | st | 1 |
| 5 | | | | How by wh. | " | 1 | | | 300/544341 300/544340 | 15 | muring | 0 | " |
| 7 | | | | 16 th by 16. | , | 1 | | | 3008 55 4240 3008 55 4138 | " | 1 | 1 | , |
| 9 | | | | 16 8 by 6. | Calm | 0 | | | 3010561844 | , | cis cury | 5 | " |
| 10 | | | | word | West, | 23 | | | 3010565046 | 7 | , | 5 | " |
| Noon. | | | | 9 w.by w | 16. W | | | | 3006524642 | " | 1 | 5 | 1 |

| Course and distance | made good since preceding noon by observations, | knots | | tenths. | 7 |
|---------------------|--|-------|--------|------------|---|
| | (Latitude by D. R. | 0 | , | " | |
| | Longitude by D. R. | 0 | , | " | |
| Position at Noon: | Latitude by observations of ⊙ | • | , | " | |
| | Longitude by chronometer from Forenoon Observations of © | 0 | , | " | |
| | (Latitude by | 0 | , | " | |
| Position at 8 a. m. | Longitude by | 0 | , | " | |
| | (Latitude by | | , | " | |
| Position at 8 P. M. | Longitude by | • | , | " | |
| Current during the | time, knots tenths per hour, setting to the | | | | |
| Variation of the Co | ompass by Amplitude ⊙ observed at Sunrise, ship's head | 0 | , | " | |
| | ompass by Amplitude ⊙ observed at Sunset, " | .0 | , | ," | |
| | ompass by Azimuth ⊙ observed at " | 0 | , | " | |
| | ompass by Azimuth ⊙ observed at " | | 0' | " | |
| | aring the preceding 24 hours, | | 08 | O gallons. | |
| Water | during the preceding 24 hours, | | | " | |
| Water remaining o | n hand fit for use at Noon, | / | 08 | 0 " | |
| | ing the preceding 24 hours, | | tons / | 360 lbs. | |
| Coal remaining on | | 9 | " 2 | 470 " | |
| | | / | | | |

| P. M. | | | | | | | / |
|-------|---------------|-----------|-----|-------------------|-----------|---|---|
| 1 | W. 16 W. | W. M. W | 3 | 30000 4641 be | City aung | 5 | 9 |
| 2 | Roll | 16 cd | 3 | 30.1594641 | ", | 1 | , |
| 3 | 16. iv. by ld | , | 9 | Bouf & Calafell " | "in in | 4 | 1 |
| 4 | W. M. W. | , | 3 | 30,025 # 46 41 | " | 4 | 1 |
| 5 | ". | , , , , | 3 | 30,025 \$ \$640 | cis euro | 4 | " |
| 6 | | W.16. W. | 2 | 3002564440 | " | 8 | " |
| 7 | " | " | 1 | 3005 49 4238 | 1 | 8 | " |
| 8 | , 1 1 | , , | 3 | 3006494138 | 1 | 8 | 1 |
| 9 | W. by 16. | W. by 16. | 3-4 | 3009404036 1 | otr | 0 | " |
| 10 | W. H. W. | W. 76, W | 3 | 3010444036 | 7 | 3 | 4 |
| 11 | , | | | 3010444036 1 | " | 3 | " |
| Mid. | 1 | , | 2 | 30,0484034 " | " | 9 | - |
| | | | | | 1 | | |

Donningues January 2/5, 1888. under the command of RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Communes and butil H. a. 1 Light bruge to airs from 16.16 W blens hower. Surings Ce of fine Lool and cloudy Light airs from Mell Char house Gaulters and 118 Hills fresh vegetables his go les fresh bread. Received for creed 118 3/4 est first heef, CAT Sichhty Partly clear, coal balen, light airs he greathe breign from west to the at 8.3. degraled Int 1014. Teremines to air bedding was granted. aires hedding thurtend or quarter and served out clean hammacks at 9.00 signales Inter 40. Frantist. Viper down and bedding, slung clean, hammost " sent dirty ones on show to be scrubbed. Tent revail often in You ho y 9 Coursel for the delivery of low Branegas, GH, in board. Board of Burvey of which Lind Heard le 91, was levies Mucher consend to survey article in Bais Arps. Transferred 8 or Mexican Dollars to the Teagehip. Workenen Jeour charlengaged in careling the spor och & repairing boiler Tent working faitin char Tross is hardy sharboard clair on hal. M.B. Hoggatt row regedian to of 11 Passing cumulus clouds putte to moderate beege from 16/60 Now Dechanics at workyou boilers we are deles caulking com Brungan 6th brought ow board by W, I Marchal Frink Wever confined in Double irous for Safe Leeping until sober Seleand harver Goudenmed of airetes to bothrown unerbrard as unfit for issue by Luntule Board of Turney and two the Can of Vaguer Setting Jacking on Newtrames En Elloway of A. Chappen Order returned from lehutes of a grant of war into the harber Susign Woody I Partly clear, bright and coel from to moderate breege from U. by the 1st hour Light to greet breeze five Willew afterwards. Clouds cis cum and chapus . trus womlight. Celeus house. Gusign le Maye Examined and found to be correct. Es Gallowdy & Navigator.

LOG of the UNITED STATES dered in the barber of BAROMETER. TEMPERATURE. WIND. Direction by Standard Compass. Heel. A. M. 3 assum y 3011584034 3011592034 2 3011 023936 3 2-3 30,10 533936 4 2-3 W. by 16 3010 493936 5 W. How 3010 4438315 2, 6 west 2 3012493835 7 W. Kil 2, 3012483835 6 8 west local 3011483936 3 3 10 3011554086 W.16 W 3 3013614134 11 30 12 63 4238 Noon. Course and distance made good since preceding noon by observations, tenths. Latitude by D. R. Longitude by D. R. Position at Noon: Latitude by observations of ⊙ Longitude by chronometer from Forenoon Observations of ⊙ Latitude by Position at 8 a. m. Longitude by (Latitude by Position at 8 P. M. Longitude by Current during the time, knots tenths per hour, setting to the Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head Variation of the Compass by Amplitude ⊙ observed at Sunset, Variation of the Compass by Azimuth ⊙ observed at Variation of the Compass by Azimuth O observed at Water expended during the preceding 24 hours, during the preceding 24 hours, Water remaining on hand fit for use at Noon, Coal consumed during the preceding 24 hours, tons 182,0 lbs. " 810 Coal remaining on hand at Noon, P. M. Low by w Whow 30.09604339 3008 boll feloto west Buog 6 my short o berry Moorid 30,066 Jost 1 4 Louis No. M. W 12 5 Bo 1068 Nox2 bescuming 2 4 wish 16.W. 1 30 10634643 6 1600 30126 Hefte wish 30 sef 6 1 Het et 1 W. M. W. 30 16 6 64441

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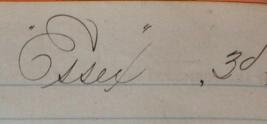
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Mid.

W. 76 ul.

under the command of Sommany of January 22, 1888. Court bleat hower. The Steam of Fight werraing at times to great bruge from From A hg. 8. a. A Theready clear Good Light brug from week Wed. to a Received fers signal Jusquaphical ollean haules down by Flagship. Glean houver From 8. a M to Meridian Sugar Elesant. Fight cir cum clouds high ho gruthe breng from week. Japanese Goroets returned gum for gun salute to long lenglish flag at main went to quarters for munitur, "windsching of chip" and crew at 931. Clear have Trouv Meridian to 4 PM Dusign Cell Wolf auchousin harbit. Gretts breize from U. K. Clean haires Troubt to 8 J. 1 Dusyan Cest Jureacy clean with bright moulight latter part. Cloud 1th hour joint light fuge of suras. Glouds come nines wais come he to to Fight buy from W. M. W. Hew Diving Tervice on board. Deforder of Court Officer Deberg Pais, was confined in accordance with his Dendehment vig: to be confined at night for five days except when needed for duty for being princh on board whip ga conclines, so a " f & Seeting, sa wencomfined as per nort. I leas harve. From 8 M his Michight Light bruze fire walch Cum have Examined and found to be correct. Los Galloway Lies & Kavigator.

LOC of the United States Ite accept Steel, 3d Rate,



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|-------|--------|---------|------------------------|--------------------------------------|---------------------------------------|--------|--|--------|--------------------------------|---|------------------------------------|----------------------------------|-------------------|
| Hour. | Knots. | Tenths. | Reading of Patent Log. | COVESES STEERED by Standard Compass. | WIND. Direction by Standard Compass. | Force. | Heel. | seway. | Height in inches. TEMPERATURE. | State of the Weather, by symbols. | Forms of Clouds, by symbols. | Prop. of Clear Sky, in 10ths. | State of the Sea. |
| H | X | T | | Thips / Kead | | F | H | 7 | 4 4 kg | | - | Sk | Sta |
| A. M. | | | | | | | | | | | | | 0 |
| 1 | | | | 1608 | 16.W. | 3 | | | Bo 22 /2 st 138 | As | ciscuux | 8 | 9 |
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| 9 | | | | week | loish | 1 | | | 3023634038 | ,, | cis cum | ny | " |
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| 11 | | | | W.16 W | ,, | 1 | | | 3030644440 | 1 | wind | 5 | 1 |
| Noon. | | | | , | " | 1 | | | 30, 463 43 21 | " | 1 | 2 | " |
| | | - | | | | | | | | | | | - |

| Course and distance | made good since preceding noon by observations, | knots. | te | enths. | | |
|---------------------|--|--------|-----|----------|--|--|
| | (Latitude by D. R. | 0 | , | '" | | |
| | Longitude by D. R. | • | , | " | | |
| Position at Noon: | Latitude by observations of ⊙ | • | , | " | | |
| | Longitude by chronometer from Forenoon Observations of ⊙ | • | , | " | | |
| | (Latitude by | 0 | , | " | | |
| Position at 8 a. m. | (Longitude by | 0 | , | " | | |
| | (Latitude by | | , | " | | |
| Position at 8 P. M. | (Longitude by | • | , | " | | |
| Current during the | time, knots tenths per hour, setting to the | | | | | |
| Variation of the Co | mpass by Amplitude ⊙ observed at Sunrise, ship's head | • | , . | " | | |
| Variation of the Co | mpass by Amplitude ⊙ observed at Sunset, " | • | , | " | | |
| Variation of the Co | mpass by Azimuth ⊙ observed at " | • | , | " | | |
| Variation of the Co | mpass by Azimuth \odot observed at " | ° | ' | " | | |
| Water expended du | ring the preceding 24 hours, | 5 | 8:0 | gallons. | | |
| Water | during the preceding 24 hours, | | | " | | |
| Water remaining on | hand fit for use at Noon, | | 20 | | | |
| Coal consumed duri | ng the preceding 24 hours, | ton | 160 | 0 lbs. | | |
| Coal remaining on l | hand at Noon, | 7 " | 148 | 50 " | | |
| | | / | | | | |

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|-------|--------------|--|---|----------------|--------------|----|----|
| P. M. | 7 | 1. 1 | | | | 1 | 1 |
| 1 | wish | west | / | Bo125 4/3/0 | As againg | 4 | 7 |
| 2 | |) | 2 | 30.1054/1440 | , " | | " |
| 3 | W.byd | , | 2 | 30,0654440 | " & arm nine | | 1/ |
| 4 | ,, | // | 3 | 30106 gsfs/st/ | , , | 4 | " |
| 5 | west. | " | 3 | 30,10614840 | to discense | 5 | " |
| 6 | W. by 16 | , | 8 | 30,10,091238 | | ny | " |
| 7 | 16. W. Cof W | " | 2 | 30/308/234 | " " | 8 | " |
| 8 | " () | 10 | 2 | 30, 25 1/084 | " " | 4 | , |
| 9 | WKW. | 16 (0) | 2 | 3012624138 | , , | 6 | 1 |
| 10 | 1 | 1 | 2 | 3012513930 | , , | 8 | 11 |
| 11 | , , | " | 2 | 3012104381810 | " cuns | 10 | 4 |
| Mid. | No was w. | 1 | 2 | 30,10563434 | " | 9 | " |
| | | DESCRIPTION OF THE PROPERTY OF | 1 | | | | |

Douwander J. Leweer J. V. S. Navy, Manday January 23, , 1888. under the command of RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Dominuces and Cushie of at From H to. P. C. H. George from M. Blear haved. A.F. Eghpoly Partly clear egith cure - 200 clouds, Dany Wood. Light ais from U. Fu No hidal observation & Exercis 15.2, 9 a Williams, 2 64 th Cheuref Fais were reliaved as per order Liberty party returned. Lawebers by any work on deckpat of 20. blear have. Receiver in Pay Det for sixue to crew Yourdstonge Fair Wood Light aus from Week. The Junda Offices of Grande wave of war, Work Dail and of ficial visit to this Ship The Going Office Trout of crisian to H JA Dusing to The Surge of the Stand of the Surge of the Stand of the Surge margely cloudy coel. Light occasional snow of flakes during last half of watch. Twell breeze from West. blear hawse byulken at work our decks all conserver in Guginens Left. Deforbed of Greed of Officer blaced Rw. Phillips 9a. 15, way sentry charge for intolling to dot medition Glear and coed grante to jugat breeze from week Dijourne Judy Offices Placed Hobert Doils, Gots in Jouble trans to awaits gerekes action for Fremseewers and assauting Orderly Tergrand Cent harose Distilling. Trout & The Ridwight for w 16 W. Clear faire Distilling A. Degletan En Gallo Estay Minavigator Examined and found to be correct.

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| // | 1 | 00 | u | our my | news) | 0 |) ' | | and | | | | | | | |
| | | | Reading | 1 // | WIND. | | | | BAROMET | ER. TE | MPERA' | TURE. | | | lear hs. | Sea. |
| | - | lis. | of Patent | COURSES STEERED by Standard Compass. | Direction by Standard | 6 | | ray. | Height T | Ther. Q | Wet D. | Water at Surface. | State of the Weather, by symbols. | Forms of Clouds, by symbols. | Prop. of Clear Sky, in 10ths. | State of the S |
| Hour. | Knots | Tenths | Log. | Ship lead | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | tt'd. L'il | Air, Wet Bulb. | Wate | | | Prop. Sky, | State |
| A. M. | | | | | . , 0 | | | | | | | | | | | 1 |
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| 11 | | | | | . " | 2 | | | 30 04 6 | | | | | " | 8 | " |
| Noon. | | | | 16 W | " | 2 | | | 30226 | 684 | 238 | | | 1 | 5 | " |
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| | Course | and | distance i | made good since preceding noo | on by observations. | | | | | knots | | tent | hs. | | | |
| | Course | unit | | Latitude by D. R. | o, odda rations, | | | | | 0 | , | , | | | | |
| | | | | Longitude by D. R. | | | | | | 0 | , | , | , | | | |
| | Positio | on at | Noon: { | Latitude by observations of | 0 | | | | | 0 | , | , | , | | | |
| | | | | Longitude by chronometer f | | ions of | 0 | | | • | , | , | , | | | |
| | | | | Latitude by | | | | | | 0 | , | | ,, | | | |
|] | Positio | n at 8 | 3 a. m. | Longitude by | | | | | | 0 | , | | ,, | | | |
| | | | | Latitude by | | | | | | 0 | , | | ,, | | | |
| | Positio | on at 8 | 3 PM. | Longitude by | | | | | | 0 | , | | ,, | | | |
| | Curren | at dur | ing the t | ime, knots te | enths per hour, setting to | the | | | | | | | | | | |
| | | | | apass by Amplitude ⊙ observe | | | | | | | , | | " | | | |
| | Variat | tion of | the Con | npass by Amplitude ⊙ observe | ed at Sunset, " | | | | | 0 | , | | ,, | | | |
| | Variat | ion o | the Con | npass by Azimuth ⊙ observed | at " | | | | | 0 | , | | ,, | | | |
| | | | 1 | npass by Azimuth ⊙ observed | | | | | | • | 0' | | " | | | |
| | | | -// | ing the preceding 24 hours, | | | | | | , | 92 | 0,0 | callons. | | | |
| | Water | 2 | iche | iles during the preced | ing 24 hours, | | | | | 2 | 08 | 0 | " | | | |
| | Water | rema | ining on | hand fit for use at Noon, | | | | | | 90 | 40 | a | u* | | | |
| | Coal c | onsun | ned durin | g the preceding 24 hours, | | | | | | 1 | tons/ | 840 | lbs. | | | |
| | Coal r | emain | ing on h | and at Noon, | | | | | | 5 | | 85 | | | | |
| - | | | | , | | | | | | | | | | | | |
| P. M. | | | | 1 | 1 1 0 | | | | | | | | | | | 1 |
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| . 2 | | | | 1600 | " | 2 | | | Bosu | 590 | 1338 | 2 | 60 | " | 6 | , 1 |
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| 8 | | | | 16 ores | 1110 | 1 | | | 30286 | | | | " | 1 | 2 | " |
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| 10 | | | | 16W. by 16 | 1, | / | | | Biza | | | | " | " | 3 | " |
| 11 | | | | W. 16. W. | 6, alul | 0 | | | 30.80 | | | | 1 | " | 3 | |
| Mid. | | | | west | west | 1/ | | 1 | 30316 | | | | 1 | , | 2 | 4 |
| | | | |) |) | 1 | 1 | 1 | 1 | | 1 | 1 | | | | |
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under the command of Junual per June de January 24, 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Journewees and light bruge firm tout blus house sistelling Trought ho. & C. Dusign a If Glear decreasing to pais executing. Fightains from M. W. Distilling Received in Part L. D. 1183414 brid " Gos the bread Gamens Ory Grow Countries We butteres and Journey in good condition. Stead haven. row & C.A. to Merideau, Hear and coal. Fight been prony to the told. Hall blear haire as 9: 20 unistues as quartus. Beforer of Douynand Glaces & Dayle, 314 in solitary confinement on bread as water for five days of for heing druck on Trail ship, assausting 1st dingrant and dierribective to Officer of diet. as oxend M. Chapper, Oeles, to be confined in Comble irous on tects of working hours for tey days, for being absent without leave 4/2 fayo also ordered & co. Phillips 9 ay 15 ho be confined in Double irous outsits of working hours for five 8 airs for insolence to Officer Deck. Workenen from shore at work in Engineers Ligh. a few carekier at work on deck. Green engaged ju consting Quintimork in deck! Received visit from Jourg Offices of "Leand to". By now of Gouvenanted, had the engine no fire room in forevald part of this learched for introjecating liques. Found none. Distilling Les Fredhay Trow Meretian to H Partly clear with year light suow. Fight frey from the Teyl party evith Sailwakers Hate in charge ou shore! Workinder from these at work in Engineers Debt. Distilling, Clear house bleur handel at y shopper distilling the fautes being free Deceived en Equipment Local to his bellows leather This bellows leather This bellows - A Decliffin and the blear hause. Thewant balus Weight ain firm lover usight att Examined and found to be correct. Les Galloway

LOG of the United States Steamer, Steel, 3d Rate,

| | | | | Reading | COPRSES STEERED | WIND. | | | | BAROMETER. TEMPERATURE. | State of | Forms of | Clear Oths. | be Sea. |
|-------|----|--------|---------|-------------|----------------------|-----------------------------------|--------|-------|---------|--|-----------------------------|---------------------|----------------------------------|------------------|
| Hour. | | Knots. | Tenths. | Patent Log. | by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. Ther. Air, Dr. att, W. ater at Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Clear Sky, in 10ths. | State of the Ser |
| A. 1 | M. | | | | W. but 16 | Caem | 0 | | | 30.30603834 | he c | ris cura | 6 | d |
| 2 | | | | | , | , | 0 | 33 | | 30 30 603 934 | 7 | " | 6 | |
| 3 | | 10 | | | " " | " | 0 | | | 30.30 583934 | 4 | " | 8 | " |
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| 5 | | | | | M. W. | " | 0 | | | 30,295 83 4/35 | y | , | 8 | , ,, |
| 16 | | | | | . M. M. W. | 7 " | 0 | | | 30.29563836 | Dew. | 1 | ny | " |
| 7 | | | | | west | West | 1 | | 1333 | 30.30 5 63 934 | 1. | 1 | 6 | , " |
| 8 | 3 | | | | 40.9 W | 10 | 1 | | | 20.30554038 | 4 | " | y | 4 |
| 9 | | | | | 9 W. by Q. | g w | 1 | | | 30.32584139 | " | " | 6 | " |
| 10 | | | | | W.by of | west | 1 | | | 30.82644239 | 13 | " | 4 | 1. |
| 11 | | | | - | N. by W. | 16. by 20 | 1 | | | 30.3265 4339 | " | " | 5 | 4 |
| Noo | n. | | | | 7 | " | 1 | | | 30 3060 Hol39 | , | " | 6 | - |
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| Course and distance | made good since preceding noon by observation | ns, | k | nots. | | tenths. | |
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| | (Latitude by D. R. | | | 0 | , | " | |
| | Longitude by D. R. | | | 0 | , | " | |
| Position at Noon: | Latitude by observations of ⊙ | | | 0 | , | " | |
| | Longitude by chronometer from Forenoon C | Observations of ⊙ | | 0 | , | ,, . | |
| | (Latitude by | | | 0 | , | " | |
| Position at 8 a. m. | Longitude by | | | 0 | , | - " - | |
| | (Latitude by | | | 0 | , | " | |
| Position at 8 P. M. | Longitude by | | | 0 | , | " | |
| Current during the | time, knots tenths per hour, s | etting to the | | | | | |
| Variation of the Con | mpass by Amplitude o observed at Sunrise, sh | nip's head | | 0 | , | " | |
| Variation of the Con | mpass by Amplitude ⊙ observed at Sunset, | " | | 0 | , | " | |
| Variation of the Co | mpass by Azimuth ⊙ observed at | " | | 0 | , | " | |
| Variation of the con | mpass by Azimuth O observed at | " | | °h | , | " | |
| Water expended dur | ring the preceding 24 hours, | | | 30 | ro | gallons. | |
| Water Wat | tile during the preceding 24 hours, | | | y: | 3 a | " | |
| Water remaining on | hand fit for use at Noon, | | 2: | 4 | 50 | 2 | |
| Coal consumed during | ng the preceding 24 hours, | | | ton | 820 | % o lbs. | |
| Coal remaining on h | and at Noon, | | 4 | 1 " | 20 | 90 " | |
| | | | | | | | |

| P. M. | Cel. by to | W. M. W. | 2 | Bo 315 6 1 4 4 40 | As signer | 59 |
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| 2 | No 8. bef 16 | Month | / | 30 24 6 24 643 | " " | |
| 3 | 96 | 9,6,0 | / | 30,236 4642 | , 1 | + 11 |
| 4 | 996 | 10. | 2 | 3034594642 | , anne | 2 , |
| 5 | 616 | 10 aleur | | 3028584642 | " " | June 1 |
| 6 | 1616.6 | , | 0 | 30 20/5 2/4/4 H | , dis eur | 1 |
| 7 | 16. by 6. | , | 0 | 30 24/5 4/0 340 | , , | 6," |
| 8 9 | da', 61 | " | 0 | 30280 apr 3261 | h | 51 |
| 10 | 98 by 6' wish | " | 0 | 30.286 W sf 441 | bein wistr | 1" |
| 11 | 16.18 | " | 0 | 3029664 139 | , " | 4 " |
| Mid. | " | " | 0 | 3028554138 | " " | 91 |

Dumander J. J. Jewell, U. S. Navy, Wednesday January 257, 1888. under the command of RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Dounnenges and Tentil H. a. M. Trueracles clear, bright and cold Galew Gloudo in cum her have Dugen le Hore. Trouv H. to S. a. A. Sove. Samue Wight airs from west. Clear have. Received for creed 95 lbs fresh bread. From 8. a. M. to Meridian Clear and Dleas and Light air from God to Roya. At directed by I quad row bircular M! 6 th Juinthamous Intern atimal Meteorologicas Observations and Form" D' Jurniched by the By drographic Office are descontinued from dats. Communiting Officer Dail official visit to Grune guntoal & the Hagelib. Workenew from show at work in Bulgineers of Dartwent lelean harve Perisian to 4 Plands cir cum & cum Light varias can to bruge Trour Veresian to 4. Letouched red leaded ironeout outside. Torraded cupstan bard. hetting a new scarfing seating paint, on starboard side of Dong Thore workenew engage if in Engineers Ly Dartment, lelear harose This per for creix, as Land sevan, Jon Judzuski. Trow St. to. 8. Ousign 4 1/ Trueracely clear balow bless hawse. how I be the haze Howing continually Clouds einet lacent to sea at jook. Beforder of Golding Offices Suf I Tenninghay the Of Cround stope Examined and found to be correct. Let Galloway lient En Navigator.

LOG of the UNITED STATES xored in the harber BAROMETER. TEMPERATURE. COURSES STEERED by Standard Compass. A. M. 3028594138 bein cincum & W/ Hold 3029594038 30.09593934 No W. by W, 3024593934 0 16 W. G. 16. 302/5/3 934 3024553934 3024543834 16 8 4 16. 30 24 53 3938 9 3020034134 10 3021614242 11 3024664643 Noon. 3025694641 Course and distance made good since preceding noon by observations, knots. tenths. Latitude by D. R. Longitude by D. R. Position at Noon: Latitude by observations of ⊙ Longitude by chronometer from Forenoon Observations of ⊙ Latitude by Position at 8 a. m. Longitude by (Latitude by Position at 8 P. M. Longitude by Current during the time, knots tenths per hour, setting to the Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head Variation of the Compass by Amplitude ⊙ observed at Sunset, Variation of the Compass by Azimuth ⊙ observed at Variation of the Compass by Azimuth ⊙ observed at Water expended during the preceding 24 hours, during the preceding 24 hours, Water remaining on hand fit for use at Noon, Coal consumed during the preceding 24 hours, tons 102/0 lbs. Coal remaining on hand at Noon, 4 " 1050 " P. M. West west 3021642642 W by to 3023 62 44 43 Wode 3020604843 str of 1 west 3018584843 W. by 9 3018 584442 3019 54/4642 16 W. by 16 3018 54 4641 Mobile a 3020 564541 30,23 634 441 16 16 W. 6 3024664239 16 by w 11 30.036/4034

30.23604034

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under the command of Juniary J. J. Seeveel, U. S. Navy, Thursday January 26th, 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. From the 8 all Counties of a Many Starboard chair on hop for the form of the Parely clies foggys ball ylightains prove 6.68. Received fire issues he creed in Pay Dept 18 4/4 (4) euch of fresh but Workenen from chir came on board. row 8. a. A. to, Meridian I back. Leget aus the breeze from I 30 hour of light breeze from It. H. W. last hour Cleared harose. Workenew engaged in Figureus Department Cetting new Ding in Scating ruel on sharboard side of Dood. Went to quarters for regulter Educational Offices 9. I bening ham the was reliased from empirement awarded the the holdloing Quinshment, to be disrated to Gandsenan but to continue to da the duties of boal Heaver by to remain on board ship I winch from date. This Swang at 1 30 bringing a cross in hawsel. Ousign a St from Meridian to H Fair and cool Fight breeze from West. Jainting ship outside. af 3. H. M. F. Leauder left the harbon. Orass in harver Dusign G 7/ Parity clear hazy Der-ceye clouds Light to guys trust from as per nort Knocked off Dainting outside by show working quel for the Jay in Engines Light. Q'a Chierit da. 15, O. Genery, Fa 15 W M. Chappen Oils A Clouded stoyle Chisign a VI to Missinger Clear to Ded. Light breeze from the we first haves increasing he fresh breeze from to to to. I qually. Gelow is hawel starboard chairs Lep, Galloway Navigator. Examined and found to be correct.

LOC of the United States Steamers of Soly, 3 Rate,

Reading WIND. BAROMETER TEMPERATURE

| Hour. | Knots. | Tenths: | Reading of Patent Log. | COTRSES STEERED by Standard Coupass. | WIND. Direction by Standard Compass. | Force. | Heel. | eeway. | BAROMETER. TEMPERATURE. Height in inches. att'd. 4 at 2 at | State of the Weather, by symbols. | Forms of Clouds, by symbols. | Prop. of Clear Sky, in 10ths. | State of the Sea. |
|-------|--------|---------|---------------------------------|--------------------------------------|---------------------------------------|--------|-------|--------|---|---|------------------------------------|----------------------------------|-------------------|
| A. M. | X | T | | Ships I call | | 4 | H | - | | | | 100 | 0 |
| 1 | | | | W.16 W. | W. 16. W. | 30 | | | 3023554034 | beg. | erneum | 8 | 9 |
| 2 | | | | 7 | , | 9 | | | Bo 255 f 40 3 ml | 15 | " | 4 | " |
| 3 | | | | d. 34, d | 111 8 11 | 35 | | | 30 255 40 34 30 255 6 H 139 | oca ! | cus curs | 5 | 1 |
| 5 | | | | Tous is | Bash | 2 | | | 3023554139 | 2.5 | str " | ny | 1 |
| 6 | | | | w. dw. | " | 1 | | | 3024564038 | ben | , | 8 | 1 |
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| 11 | | | | of by co | .1 | 1 | | | 30.31654542 | 11 | wind | 5 | " |
| Noon. | | | | To E by to. | 1 | / | | | 303/65 46 41 | " | , | 5 | " |

| Course and distance made good s | ince preceding noon by observa | ations, | knots. | | tenths. | |
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| (Latitude b | | | 0 | , | " | |
| Longitude | | | 0 | , | " . | |
| Position at Noon: { | y observations of ⊙ | | | , | " | |
| | by chronometer from Forenoo | on Observations of ⊙ | 0 | , | " | |
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| Position at 8 a. m. Longitude | by | | • | , | " | |
| (Latitude b | y | | • | , | " | |
| Position at 8 P. M. Longitude | | | • | , | " | |
| Current during the time, | | nr, setting to the | | | | |
| Variation of the Compass by Ar | aplitude o observed at Sunrise | e, ship's head | 0 | 7 | " | |
| Variation of the Compass by Ar | aplitude ⊙ observed at Sunset, | 4 | 0 | , | " | |
| Variation of the Compass by Az | imuth ⊙ observed at | " | 0 | , | " | |
| Variation of the Compass by Az | imuth ⊙ observed at | " | 0 | , , | " | |
| Water expended during the prec | | | Ö | 80 | gallons. | |
| Water | during the preceding 24 hours | 5, | | | " | |
| Water remaining on hand fit for | use at Noon, | | 19 | 9 | 0 ". | |
| Coal consumed during the prece | ding 24 hours, | | tor | 18 80 | FO 1bs. | |
| Coal remaining on hand at Noor | , | | 4 . | 19 | 70 " | |
| | | | | / | | |

| P. M. | 1 | 1 | | | | | 1 |
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| 2 | 16. Ko W. | , | 2 | 3028634642 | , , | | |
| 3 | 1" 0 | , | 2 | 30.28614642 | , , | 4 | " |
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| 5 | Mo by w | " | 2 | 30.3058 4541 | , on | 4 | , 11 |
| 6 | 16 16 6. | " | 2 | 30.0158 Hot 41 | " | 14 | . 11 |
| 7 | V 4 | / | 2 | 30.3354/1340 | , , | ny | , , |
| 8 | 16 E. af 1. | " , | 2 | 30.30064840 | " | M | 1 |
| 9 | W.b. H. | week | / | 30.32064340 | " " | n | 1 |
| 10 | wish | , | / | 30000 4/39 | " " | 4, | 1 |
| 11 | W. by 9 west | 1 " | 1 | 3032544038 | | 6 | 11 |
| Mid. | west | 6, alu | 0 | 30.8255 4038 | | 6 | |
| | | | 111 | | | | - |

under the command of Summander J. Jewell, U. S. Navy, Frisay January 27/4, 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Dossummer y lutie 4. a.1. hour generally cloud with light breeze from W. I W. Elbow in howe, Starboard chair J. A. F. Lechetton Truncing glear, happlades back blouds circum Water Light airs to breigh em East to 16 8. Beleased from confinement, as per now Will Practigay, 6, 141 JE Destois, 15. a P. Ewery, 9a19 A chappen as Ry. Phillips gals Services, for usen 1 20 lbs each of fresh beef "we vegetables " 96 lbs fresh bread Liberty party returned Tenu & a A to Merideau Curned to in Engines de fat the enu & a A to Merideau Fair Decreasing to cloudy and cool weather Fight air from HO Cleans have Painting this outside bross in harde with starboard chainson top at end of evaled. Workener from shory at evert in Sugaryon debt. Page off 120 released P. Eigery Sais, from confinement. I The Till Summents Dusign 4 91 Trown Weresian toot franciery doudy leval Light bruge from Morth Gross in hairs, Sharbourd Chairs on hop. Workingen from shore at work in Guginess De partiant Paristend put sity of this outsite this per for crime as 200 yanuastra tackman cent a stone Clear cool us Deusant. Fight breeze from Morth. Elbred in harrie sharboard chair on hat. Pacinting outside. Earbenters gang at work on port rail. By order of Emog Officer recomfines the heppelly Ocler & Cles Thurst, Fair. governor dens level right airs from west with last hour when callen. Elbow in howe that on chain on too A.T. Lechtolor Tient and Examined and found to be correct. D. Galloway & Navigator.

sored in the harbor of A. M. ball 303256393N 3034 603934 0 No way W. 3004604038 0 16 W 16 6. 16 ord 30.94584038 0 303458403.8 3033544038 3082564038 16 8 by 16. Mond & 30 925 NH 139 8/66 6 164 16. 9 and 303162 4139 3031654210 30325944 42 goed 20,29664643 Noon. Course and distance made good since preceding noon by observations, Latitude by D. R. Longitude by D. R. Position at Noon: Longitude by chronometer from Forencon Observations of ⊙ Position at 8 a. m. Longitude by Position at 8 P. M. Latitude by Current during the time, knots tenths per hour, setting to the Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head Variation of the Compass by Amplitude ⊙ observed at Sunset, Variation of the Compass by Azimuth ⊙ observed at Variation of the Compass by Azimuth ⊙ observed at 380 gallons Water expended during the preceding 24 hours, during the preceding 24 hours, 1.610 tons/360 lbs. Water remaining on hand fit for use at Noon, Coal consumed during the preceding 24 hours, Coal remaining on hand at Noon, Touch 3026614643 beer in min 5 3024 No Hall HA 990 99w. 302468 Hy sto received 1 Toyed Gash balew 3023634943 3022624144 302061443 ENK BE 3019614640 2019601613 ben cours 6 1 3016584613 16. W. by 16 30 14 58 Hofels 16 16.60. 301354/341 WNW 301354 1341

Tournageder . Feerell, , U. S. Navy, gaturd and January 28 , 1888. under the command of RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Douweres and Custic of a Malow. Elboid in Lawrey From H. hr & all cloudy balled ha light airs from to to do to from Trouv 8. a. A to Meridian Cool Light variable dies af 8.3, cleaned however Working from thore of work in derginen Light. Consenters gang of work on hafrail. at end of work in derginen Light. Consenters gang of the formal of the formal court of the formal court of the formal of the formal court of the formal o Liest a Style From Meritian to 4. Th Goes in house that out chain on hop. Working from there engaged is From I have and cloudy book blens have. Gusigo Col cd. J. Sechtily From & O. M. to Missings balow below Lawren Mighting and Colon Susing way Examined and found to be correct. Los Callo way

LOG of the United States Steamer of Steel, Rate,

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| Hour. | Knots. | Tenths. | of Patent Log. | by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. Ther. Art of the Weath by symbol of the Weath by the | Forms of Clouds, by symbols. | |
| A. M. | | | | W. 16. W. | balus | 0 | | | 30,25 14240 ben | on aun of 9 | 1 |
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| 11 | | | 1000 | west | " | 2 | | | 30,0654542 ber | of cycum of | " |
| Noon. | | | | ,) | " | 3 | | | 3008 634445 | , 0, | " |
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| Course and distance | made good since preceding noon by observations, | | knots. | ter | nths. |
|---------------------|---|----------------|--------|------|----------|
| | (Latitude by D. R. | | 0 | , | " |
| | Longitude by D. R. | | 0 | , | " |
| Position at Noon: | Latitude by observations of ⊙ | | 0 | , | " |
| | Longitude by chronometer from Forenoon Obse | ervations of ⊙ | 0 | , | " |
| | (Latitude by | | 0 | , | " |
| Position at 8 a. m. | Longitude by | | 0 | , | " |
| | (Latitude by | | 0 | , | " |
| Position at 8 P. M. | Longitude by | | • | , | " |
| Current during the | | ng to the | | | |
| Variation of the Co | ompass by Amplitude @ observed at Sunrise, ship's | s head | | , | " |
| Variation of the Co | ompass by Amplitude ⊙ observed at Sunset, | " | 0 | , | " |
| Variation of the Co | ompass by Azimuth ⊙ observed at | " | 0 | , | " |
| Variation of the Co | ompass by Azimuth O observed at | u | °a | 6 | " |
| Water expended du | aring the preceding 24 hours, | | 00 | 0 | gallons. |
| Water | during the preceding 24 hours, | | . 0 | | u, |
| Water remaining o | n hand fit for use at Noon, | | 12 | - | " |
| Coal consumed dur | ring the preceding 24 hours, | | ton | s 88 | O lbs. |
| Coal remaining on | hand at Noon, | | 3 " | 19 | 0 " |
| | | | | / | |

| P. M. | W. M. W. | west | 2.3 | 3004644843 | tein | cia ours | 6 | 9 |
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| 7 | Whyd | " | | 3010064440 | " | 1 | 8 | " |
| 8 | My by W. | 16" | 1 | 3011561340 | 1 | 11 | 4, | 1 |
| 9 | Mo by E | Posts | 1 | 3005611289 | 1 | cum | 1 | " |
| 10 | My buf id | " | / | 3015544338 | , | , | 9 | " |
| Mid. | Morel | 1 | 1 | 30 1/ 5 4 4/38 | 1 | " | 2 | |

Junday January 29th, 1888. under the command of RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Deur hawser, I all forget balent blouds in come cun the free of the forget tope Trolled It ho. I all book bless harde I was French wen of roas the Flagship with Primaguel came in I anchow. Sund aw offices his pay the visual visit. Placed Joseph Mohler of under sentrula charge he being under the winder the winder of the sentrula charge he being und it the influence of liques. 10d. F. Feelersten row 8. a. A to Meridian fog first part baley willight to great breeze from west. Tent boarding Offices to the Truck Heyship Tukenen at foclock. at 9:30 unstered up inspected creed at quarters. Tent bounding officer to american Barque It James Communicand my Officer paid official visits to the French ships Juring " Prim a good By sides of the Gounda Of fires referred & G. Desbois, 15.a, Golf Dayle, 61tr, Est. Franciago Gylt & Red. Phisip 9a15 feace, confinement their tirus paving expired. Officer framothe treach Hayphit wealer repens call of courtry Gross in hayase, starboard chair on hap. French Fechteler, W. 91, left the ship on three days leave of absence. H. Hoggest 1 Gusige agh roceil eridius to 4 Jewerally clear bright by Pleasant Day, Fight to modrate bruge from west and breus a Officer. Prope accidentacly one of 1st Cetters van Beel Diops dervice on board. Gross in house, starboard hairs on top Willowstongs Truerally clear. Thereaut. Fight airs he greate bruge flow M les WIN MO Gross in Chawse, starboard chain on tap. Ousign West aus from Bout bross in haws. Tisign WX Les Galloway El Navigator. Examined and found to be correct.

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| | | | Reading | 4 | WIND. | | | | TEMPERA | | State of | Forms of | Oths. he Sea | |
| 4 | ż | ths. | of Patent Log. | COUBES STEERED | Direction by Standard Compass. | e e | Heel. | Height Th in inches. | Air, Dry Bulb. Bulb. | Water at Surface. | the Weather, by symbols. | Forms of Clouds, by symbols. | Prop. of Clear Sky, in 10ths. State of the Se | |
| Hour. | Knots. | Tenths. | | hips reas | / Compass. | Force. | Heel. | In the second | A B B | No. | | | Sky Sky | 1 |
| A. M. | | | | M MIR | 261 | 1 | | 2 - | / | | , , | 1. | nd | |
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| 2 | | | | 16.00. | 1/2 1/2 | 1 | 3 | | 34038 | | " | "1 | 5 1 | |
| 3 | | | | , , | 10,10,00, | 1 | | | 34037 | | " | " | 1-11 | |
| 4 | | | | Ho"week | bolul | 0 | | 30,20 | | 2 | 1 | "int | 0 " | |
| 5 | | | | duble w | roest | 1 | | 30120 | 4/ | 1 | 1 | aury | 2 11 | |
| 6 | | | | Touth | Calle | 0 | | 30,45 | 11 | 8 | " | 1 | 2" | |
| 8 | | | | 990 | " , | 0 | | 30144 | 11 | 1 | , | " | 2,1 | |
| 9 | | | | 2 11 0 | west | 1 | | 30 195 | 111 | 7 | " | cis cum | # 1 | |
| 10 | | | | UM, W. | 11) | 1 | | 30.155 | -14234 | 9 | " | 0 , | 3 , | |
| 11 | | | | 1" | Dalu | 0 | | 30130 | //// | 9 | " | , | 9 11 | |
| Noon. | | | | 9 W. G. C. | 1900 | 1 | | 30110 | extrof | 0 | " | ciu | 3. | |
| | | | | | | | | | | | | | | |
| (| Cours | e and | distance m | ade good since preceding no | oon by observations, | | | | knots. | tent | hs. | | | |
| | | | 1 | Latitude by D. R. | | | | | 0 / | " | | | | |
| | Positi | on at | Noon: { | Longitude by D. R. | | | | | 0 / | | , | | | |
| | Our | 00- | | Latitude by observations of | | | | | 0 / | | , | | | |
| | | | | Longitude by chronometer | from Forenoon Observation | ons of ⊙ | | | 0 / | | " | | | |
| 1 | Positi | on at | 8 a. m. < | Latitude by | | | | | 0 / | | " | 77.10 | | |
| | | | (1 | Longitude by | | | | | | | " | | | |
| 1 | Positi | on at | 8 P. M. | Latitude by Longitude by | | | | | | | ,, | | | |
| | Carre | at dur | ring the tin | | tenths per hour, setting to | the | | | | | | | | |
| | | | | pass by Amplitude ⊙ obser | | | | | 0 / | , | " | | | |
| | | | | pass by Amplitude ⊙ obser | | | | | 0 / | , | " | | | |
| | | | | pass by Azimuth ⊙ observe | | | | | 0 / | , 12 | " | | | |
| | | | | pass by Azimuth ⊙ observe | | | | | 000 | 50 | " | | | |
| | | | | ng the preceding 24 hours, | | | | | 00 | 015 | gallons. | | | |
| | Water | r | | during the prece | eding 24 hours, | | | | 0 + | | " | | | |
| | Wate | r rema | ining on h | hand fit for use at Noon, | | | | | 10 | 0, | " | | | |
| - | Coal | consur | ned during | g the preceding 24 hours, | | | | | tons | 960 | 2 lbs. | | | |
| | Coal | remair | ing on har | nd at Noon, | | | | - | 2 "1 | 145 | 0 " | | | |
| - | | | | | 1 1 | 1 | | | | | | | 1 | 7, |
| P. M. | | | | 0/11/11/01 | 911119 | 1 | | 30.1 | 1/1 | . 1 | 1. | 1 | 19 | 1 |
| 1 | | | | 11 | Ja de de | 1 | | 3006 | | 9 | ver | cescen | 5/ | |
| | The same of | | | 900 | g'gw | 2 | | 3005 | - | 0 | 1 | " | 1 | |
| 2 | | | | 0.10.0 | | 2 | | | 5-1434 | 1 | to | oun | 0 | |
| 3 | | | | 9 64 0 | 4 1 | No. of Concession, Name of Street, or other Designation, or other | | | | |) | Cum sirm | 0 | |
| 3 | | | | 9 64 W | West | 2 | | W1001 | -1.144 | - | | May | A Company of the Comp | |
| 1 | | | | Sw. | west | 2 | | | 5/444 | | ben | | 11 | 4 |
| 3 | | | | Ju Su | Coest | 2// | | 30 06 | 11444 | 41 | ben | cia ums | 11 | |
| 3 | | | | | Coest | 2/// | | 3000 | 5-1444 | 12 | ben | eig ums | 11 | |
| 3 | | | | 9 6 W. Sw. W. | Coest | 2/// | | 30 05 | 5-14264 5-1464 | 12 | ben " | cin ums | 19 | |
| 3 | | | | | Coesh | 2///// | | 3000 | 5-1424 5-1434 5-1434 | 12 | ber | city every | 3 1 | |
| 3 4 5 6 7 8 | | | | | Coest | 2/////// | | 30 06 30 05 30 06 | 5-14264 5-1464 | 12 | bers. | cin um | 3 1 | |
| 3 4 5 6 7 8 9 | | | | 16.16.6 | loest 16'tel. | 2////// | | 30 05 30 05 30 06 30 06 | 5 1 H 3 H 5 1 H 3 H 5 1 H 3 H 5 1 H 3 H | 12 | bers " | cin cum ming | 3 1 | |

under the command of Dound cultures January 30, 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Journewest and butil 2. all airs fearing to w. Gebous in hourse. De-confined A Shappen, Only. Beforder of the Sound Offices & A Soar from liberty to how ourting and brunk, Beceived fin issues in Pay Sept 97 lbs fresh bread Workmy Jany from those came on board. Thear harose! from 8. a H. to Meridian arthy clear with cip cum & cique, clouds. Gright a Clearant. Fight variable airs by called dies not observed bastain of trust Sovets him aguitance Agrice Just at Dalget Francis & recetter Infantry and Orthislery Sources of Mary Brigade. There was knew engaged in Enginees Left. Lested Hayanging and there class Flood Socks, and Les ook of Forecasels Punch and Journal all in good north. Jestel all electrical councitions " butteries " Dry 9. 6. Primers & Troud their right. Clear hawse about of watch. our / erition to of Sloudy " Good eventher Fight airs from Two by I'm of Ja There evertewew eparting in Suginers Deft. That it have starbourd chairs on top Gerald out unitely money! Tent special liberty Darton Chord. (Hoorge aus to breeze from west and My W. By sides of Sound of Offices Sand Williams John sentry charge for being ender of influence of lights on duty. as per moss. Tought Stone esquesh! Jusian C Sloudy and cool Light airs from the water that hour where chow in house starboard hair on top. af & Started of styllen Examined and found to be correct. Es Gallowage

LOG of the United States tegines Steel, Rate,

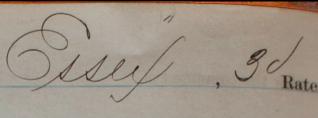
| | | | Reading | 1 | WIND. | | | | BAROMETER. TEMPERATURE. State of Forms of State of Forms of State of Forms of State |
|-------|--------|---------|----------------------|----------------------|-----------------------------------|--------|-------|---------|--|
| Hour. | Knots. | Tenths. | of Patent Log. | by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. att'd. There is inches. Att'd. Height in inches. Att'd. Height inches in |
| A. M. | | | | Garl | b, aem | 0 | | | 30,0350 \$240 00 cum 09 |
| 2 | | | | 6166 | , | 0 | | | 30,05504038 ben 1 1 1 |
| 3 4 | | | | 76.861 76 | , | 0 | | | 30.02504038 " " 3" 3" 3" 3" 5.00 cincum 0", |
| 5 | | | | 76 16 16 | , | 0 | | | 300/494038 cm cum 0 " |
| 6 | | | | Harris. | 1 | 0 | | | 300/494038 " " O" |
| 8 | | | | 76.5 | " | 0 | | | 3000H0H038 " " 1/" |
| 9 | | | . 13 | de bef 6. | 96 | 0 | | | 30005/4340 bein cir cum of " |
| 11 | | | | 98, | ,") | 1 | | | 30,00604648 " " " " |
| Noon. | | | | " | | / | | | 30,005 54 1 43 " " " " " " " " " " " " " " " " " " |

| Course and distance | made good since preceding noon by observations | , | knots. | te | nths. |
|---------------------|--|------------------|--------|-----|----------|
| | (Latitude by D. R. | | 0 | , | " |
| | Longitude by D. R. | | • | , | " |
| Position at Noon: | Latitude by observations of ⊙ | | 0 | , | " |
| | Longitude by chronometer from Forenoon Ob | bservations of ⊙ | • | , | " |
| | (Latitude by | | 0 | , | " |
| Position at 8 a.m. | Longitude by | | • | , | " |
| | (Latitude by | | 0 | , | " |
| Position at 8 P. M. | Longitude by | | • | , | " |
| Current during the | | tting to the | | | |
| | mpass by Amplitude ⊙ observed at Sunrise, shi | | 0 | , | " |
| | mpass by Amplitude © observed at Sunset, | y o nead | 0 | , | " |
| | | " | | , | ,, |
| / | mpass by Azimuth ⊙ observed at | " | | | " |
| / | mpass by Azimuth ⊙ observed at | | | 380 | gallons. |
| | ring the preceding 24 hours, | | , | 30 | gallons. |
| Water JU | during the preceding 24 hours, | | - | | |
| Water remaining on | hand fit for use at Noon, | | 6 | 00 | " |
| Coal consumed duri | ng the preceding 24 hours, | | / tons | | |
| Coal remaining on l | hand at Noon, | | / " | 89 | 0 " |

| P. M. | 1 61 | 10 | | | | | , | 01 |
|-------|---|-----------|---|--------------------|-------|-----------|----|-----|
| 1 | Juj6. | 98 | / | 29.9854 4642 | being | cia acces | 6 | 9 |
| 2 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 1 " | 1 | 29.98544643 | , | , | 5 | 4 |
| 3 | of why id | dout | 1 | 219.94504645 | " | , | 2/ | 11 |
| 4 | of whole we | - | 1 | 39.91 50 4642. | ', | | 4 | |
| 5 | Way 16. | W. by No. | 1 | 3,99/494642 | , | our. | 5, | . " |
| 6 | " 1 | | 1 | 2991514612 | , | , | 4 | 4 |
| 7 | W.by of | Called | 0 | 29.91 4944 43 | ", | cum | ./ | " |
| 8 | No by co. | | 0 | 2990 194443 | " | | 4 | 4 |
| 9 | 16.00 | n.w. | 1 | 219 88 4 8 24 4 11 | ,, | cir ob | 8 | 1, |
| 10 | W. Jul | , | 1 | 09904543410 | | | 9 | - |
| 11 | 4160 | | 1 | 2989-144338 | 1 | , | 9 | - |
| Mid. | W.by. 1. | wish | 1 | 2988 Hotofor 3 4 | | , | | |

Domenander James James J. S. Navy, June Day James James James 313, 1888. under the command of RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Communes/and Centric 4 a M brand chain on top. loved I level I'd calen Mounight. Gebour in howis, when to talloway of row + to. & a. M. ioually. Calu. level. Reliarist hoper, Orles, as per order Filesty party poturied. Received feet issues to creed. 121/4 cs each of frest buf " septoples "y grills of fresh bread. Those workenew turned to in Engris Nept at its Celow Il Nound stone ow 8. C. M. to Meridian hour light girl from & Exerciciones of water By order of Formunito Dieratel for Lequan Pul Glaced will restriction your Thombson Explaned new from Some Confinement, also released to the Come, Soust. There's haves at 9.30 remistered at quarters & aftereours drieted at infantry, and articlery. Those working in Engris Left. There haves affects out / webian to 4 Truesactes clear and cold. Passing cut-cum clouds. Light airs from 5249 have over the land. Made preparations for goaling ship Fitted new cat feels go fuit it Mainly "I Mainly "I Mainly "I Mainly " Mai to salloway 1 I air to cloudy weather. Fight airs from Wby to first half calmit remainder Goaling ship at end of watch received 21 hour 52 4 coal see board brows in haiose Ill tyll ibught blear of coid. Bright woonlight. Fight air from to W. by W. pass in hours, starboard chain on tak. Of 8. confined of tappel Olley in double wous as per order. Frenk 491 Examined and found to be correct. En Gallow dy Sicingson.

LOG of the United States Steamer Stell, 3 Rate,



| | | , | Reading of Patent | COURSES STEERED | WIND. | 1 | | y. | BAROMETER. TEMPERATURE. | State of the Weather, | Forms of Clouds, by | of Clear 1 10ths. | State of the Sea. |
|-------|--------|--------|-------------------|-----------------|-----------------------------------|--------|-------|-------|--|--------------------------|------------------------|----------------------------------|-------------------|
| Hour. | Knots. | Tenths | Log. | This Head | Direction by Standard Compass. | Force. | Heel. | Leewa | Height In Inches. att, W. Marker at Surface. | by symbols. | symbols. | Prop. of Clear Sky, in 10ths. | State of |
| A. M. | | | | 1 | 3. / | | | | | 1- | . , | 7 | d |
| 1 | | | | May w. | wess | / | | | 29.84 43 40 34 | 1.5 | cus of | 9 | 7 |
| 2 | | | | west | " | 1 | | | 29.84434038 | " | 1 | 4 | 11 |
| 3 | | | | W. M. cd. | " | 2 | | | 29.84433984 | " | " | 8 | 1 |
| 4 | | | | 1 " | N" 0 | 05 | | | 2986413836 | veg. | cit ours | 8 | 11 |
| 5 | | | | 16 w. by w. | Mul | 3 | | | 29 91423836 | osg/S | DIF | 4 | 11 |
| 6 | , | | | W. 16, W. | 7/ "1 | 3 | | | 29 91423435 | oc. | cum str | 4 | , |
| 7 | | | | 7/ " | 16 16 W | 3 | | | 29 92 f 13m/31 | " | 1 | 4 | " |
| 8 | | | | No W. 6/-W. | W.16 W | 3 | | | 29 91 423836 | , , | , | 9 | 11 |
| 9 | | | | W.M. W. | , | 3 | | | 29 91 423836 | ', | " | 8 | 1 |
| 10 | | | | west | | 3-4 | | | 299149 fo.36 | , | ', | 2/ | 1 |
| 11 | | | | Mod by W | | 3-4 | | | 2991434036 | 4 | | 0 | 1 |
| Noon. | | | | Withou | , | 9-4 | | | 29 904 34 136 | | - 0 | 6 | , |

| Course and distance | made good since preceding noon by observations, | knots. | tenths. | |
|----------------------|--|--------|-------------|---|
| | (Latitude by D. R. | 0 , | " | |
| | Longitude by D. R. | ۰ , | " | |
| Position at Noon: | Latitude by observations of ⊙ | ۰ , | " | |
| | Longitude by chronometer from Forenoon Observations of ⊙ | 0 , | " | |
| | (Latitude by | 0 , | " | |
| Position at 8 a. m. | Longitude by | 0 , | " | |
| | (Latitude by | . , | " | 7 |
| Position at 8 P. M. | Longitude by | 0 , | " | |
| Current during the t | time, knots tenths per hour, setting to the | | | |
| Variation of the Con | mpass by Amplitude ⊙ observed at Sunrise, ship's head | 0 , | " | |
| Variation of the Con | mpass by Amplitude ⊙ observed at Sunset, " | 0 / | " | |
| Variation of the Con | mpass by Azimuth ⊙ observed at " | 0 , | " | |
| Variation of the Con | mpass by Azimuth ⊙ observed at " | 0, | · " | |
| Water expended dur | ring the preceding 24 hours, | 30 | Fo gallons. | |
| Water Lis | tilled during the preceding 24 hours, | 14 | 80 " | |
| Water remaining on | hand fit for use at Noon, | 18 | 00 " | |
| Coal consumed during | ng the preceding 24 hours, | | | |
| Coal remaining on h | and at Noon, | 20 " | 1892 " | |
| | | | / | |

| P. M. | , | , .0 | | | | , |
|-------|---------------|------------|----------------|------|---------|-----|
| 1 | west | W. 16 W 35 | 29.89 44 40.34 | tog! | in our | 6 9 |
| 2 | W. bef 16 | , 3.5 | 2988464031 | | uninel | 3 |
| 3 | west | 3-6 | 34.89164838 | , | , | 4 |
| 4 | W. by to | 3.0 | 2992164338 | " | 11 | 1 |
| 5 | No welley cd. | 35, | 3494 454 136 | , | " | 5 |
| 6 | W. N. W. | 9-2 | 2998453934 | " | , | 8 |
| 7 | M. W. by. W. | 3-4 | 399/1/23/32 | " | " | 9 |
| 8 | Wajt. | 3 | 2994403632 | , | , | 9 |
| 9 | W. 16 W. | , 3 | 3000383532 | 150 | cur cir | 9 |
| 10 | | , 3 | 30.043.13431 | " | , | 8 |
| 11 | , | . 3 | 30.03343330 | , | " | 9. |
| Mid. | | , 3 | 304363230 | | , | 8 |

under the command of Summander, J. Fleaser, U.S. Navy, Wednesday February 145, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Cross in house, starboard chairs on hop. I MB How the From the Sales eventes Juan squall second hour greats bring from the W. M. No. Received in Pay Dept 95 ets breed From howe Jestilling. He ho Meridian Dusing to M. Select from the Design to M. Jestilling to the Select from the Select from the Select former from those work in Engire Light. Sleaning up ship during former. From Meridian to It A feel freely Greek to stiff brugg from 4 16 at Lasticing brown with Sailwaker Starboard chair on to D. Lend working from I to the formal of the formal of the formal of the first o Jewall clest Great Sawe Directing. Distilling Colling. With the wind of the Colling of the Chair out to be desired breeze from U. M. W. Pross in harrier, startown chairs out to b. Distilling. Susign toggath

Examined and found to be correct.

Les Galloway Lieux Navigator.

LOG of the United States Steamed "Sades", 3 Rate,

| | | | Reading | | WIND. | | | | BAROME | TER. | TEMP | ERAT | URE. | State of | Forms of | Hear ths. | e Sea. |
|-------|--------|---------|----------------------|--------------------------------------|-----------------------------------|--------|-------|---------|-------------------|--------------|-------------------|-------------------|----------------------|-----------------------------|---------------------|------------------------------|----------------|
| Hour. | Knots. | Tenths. | of Patent Log. | COTRSES STEERED by Standard Coupass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. att'd. | Air, Dry Bulb. | Air, Wet Bulb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Cle Sky, in 10th | State of the S |
| 1. M. | | | | | | | | | 7 | | | | | | | | , |
| 1 | | | | How. by. cv. | W. M. W. | 3 | | | 30.08 | 35 | 32 | 30 | | do | cij ciu | 4 | 0 |
| 2 | | | | n.w. | ,, | 3 | | | 3008 | 94 | 31 | 29 | | ", | " | 8 | |
| 3 | | | | M. W. by W. | , | 3 | | | 30,10 | 33 | 30 | 28 | | " | 1 | 1 | , |
| 4 | | | | 1 | ,, | 2 | | | 3011 | 34 | 3/ | 29 | | bes | , | 4 | - |
| 5 | | | | W. 16. W. | 7 | 1 | | | 3011 | 35 | 31 | 29 | | " | 1 | 9 | |
| 6 | | | | Wby Mo | " | 1 | | | 30,6 | 34 | 3/ | 30 | | , | " | 8 | |
| 7 | | | | , | 1 | 1 | | | 30.21 | 35 | 20 | 29 | | 1 | " | 8 | |
| 8 | | | | W160 | , | 1 | | | 30.22 | 35 | 91 | 29 | | do | " | 9 | 1 |
| 9 | | | | " / | 1 | 24 | | | 30,20 | 35. | 32 | 30 | | 19 | 1 | 8 | , |
| 10 | | | | W6116. | W. by 16. | 24 | | | 30.26 | 34 | 34 | 31 | | , " | " | 4 | - |
| 11 | | | | 16.co. | | | , | | 30.28 | 39 | 36 | 83 | | being. | 4 | 7 | 1 |
| Noon. | | | | 16 wayw | No W. W. W. | prot | | | 30.24 | 39 | 34 | 34 | | " | 4 | 5 | - |

| Course and distance made good since preceding noon by observations, | knots. | tenths. | |
|--|--------|-------------|--|
| (Latitude by D. R. | 0 | , ,, | |
| Longitude by D. R. | 0 | , ,, | |
| Position at Noon: Latitude by observations of ⊙ | 0 | , ,, | |
| Longitude by chronometer from Forenoon Observations of ⊙ | 0 | , " | |
| (Latitude by _ | • | , ,, | |
| Position at 8 a. m. Longitude by | 0 | , ,, | |
| (Latitude by | • | , ,, | |
| Position at 8 P. M. Longitude by | • | , ,, | |
| Current during the time, knots tenths per hour, setting to the | | | |
| Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head | 0 | , " | |
| Variation of the Compass by Amplitude ⊙ observed at Sunset, " | 0 | , ,, | |
| Variation of the Compass by Azimuth ⊙ observed at " | 0 | , " | |
| Variation of the Compass by Azimuth ⊙ observed at " Variation of the Compass by Azimuth ⊙ observed at " | 0 | , " | |
| Water expended during the preceding 24 hours, | 3 | FO gallons. | |
| Water Water during the preceding 24 hours, | 13 | FO " | |
| | 28 | | |
| Water remaining on hand fit for use at Noon, | 1 | 2070 lbs. | |
| Coal consumed during the preceding 24 hours, | tons | 20/0 lbs. | |
| Coal remaining on hand at Noon, | 18 ". | 7062 " | |

| P. M. | 1 | -1 0 | | | | | | |
|-------|--------------|--|-----|----------------|------|----------|------|---|
| 1 | 16. W. by 16 | Contract of the Contract of th | 2-9 | 3024/23935 | Les. | cum nink | 3 | 9 |
| 2 | March | Morch | 2-3 | 3025 183835 | 4 | | 2 | 1 |
| 3 | 16. 16 6% | 1616 | 2-3 | 30 34 42 38 35 | " | " | 3 | 4 |
| 4 | Now. | W. M. W. | 2 | 5,29444036 | do | oir cum, | 4 | " |
| 5 | No. W. by W. | . " | 2 | 3033438834 | | " | | |
| 6 | west | M. M. W. | / | 3084453835 | | " | ny | " |
| 7 | 16.8 by. 16 | Horeh | / | 3085153835 | bens | | | |
| 8 | | No. W, | / | 3034463835 | , | ", | 10 | N |
| 9 | 8 98 | 6. 96. | / | 303-14-13836 | , | cur | | |
| 10 | Gack | b, aleu | 10 | 30391/13135 | , | " | - | |
| 11 | 16.616 | " | 0 | 3041653435 | | on cum | | |
| Mid. | 168 | " | 0 | 3042658434 | | | 1 11 | |

under the command of Summander Thursday February 2, 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Drumences and lentie of a. 18 hour Light to great breeze from in 16 W. Gross in hours Sisteling Thou H to 8 a Might airs from U. H. Brown harose starboard chain our hope. Disting Bereived in Pay Sight 1/8 lbs buf Wongetapus & golds bread. Troue 8. a. A to Meridian Squary Light to moderate brene in Juffe from Agus. by the work south said with Sense in Surfer from party our show with Saidwaker. Bleaved have. Began coaling at 15-3. Clear, harve Distering. Trow Meridian to 4/ PM Jusign Coggeth Partly ofear with cive right "d' cir cum clouds Gold. Light fall of Survey his last hour Light breeze from W. M. W. overing to Mort & M. 18 W last hour to W. No W. again. Regan cooling at 12 ", " If finished at 12 40 having received 3 hours 22 to and 25 hour in all. Painting ship outside to part Stopped disheling at 3.55. Clear haves. Eusign Wolf Und of Hours leleas haived. Careflast part Light aus and light bury fines June & B. ho Wishingh wormight. Goed. Light has 1 st Sant. Clouds come and cit cum. Light airs from 6 16 1 st hours. Balow afterwards. Clay hower. Heround tong Examined and found to be correct. Et. Gallowaghing & Navigator.

LOG of the United States Steamers "Ssee", 3 Rate,

| Hour. | Knots. | Tenths. | Reading of Patent Log. | COURSES STEERED by standard Compass. | WIND. Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. TEMPERATURE. Height in inches. The control of the Weather, by symbols. Height in inches. The control of the Weather, by symbols. Height in inches. The control of the Weather, by symbols. | Sky, m tutns. State of the Sea. |
|------------|--------|---------|------------------------|--------------------------------------|---------------------------------------|--------|-------|---------|---|---------------------------------|
| A. M. 1 | | | | N. by 6. | balu | 0 | | | 30 x1 62 36 34 be us cum 6 | d |
| 2 | | | | W. M. W. | , | 0 | | | 3041613434 " " 6 | 1 |
| 3 | | | | week | , | 0 | | | 30.39 623633 " cum/3 | 3 , |
| 4 | | | | w.n.w | 4 | 0 | | | 30.99623633 4 2 | 2 " |
| 5 | | | | W by 9 | 1 | 0 | | | 30 39 5 1 3 5 3 3 " 2 | 2 , |
| 6 | | | | gu by g | 1 | 0 | | | 3038543633 ben y | 1 , |
| 7 | | | | 16.6 | 4 | 0 | | | 80 59 50 3 4 3 3 4 4 4 | 1 " |
| 8 | | | | 696 | " | 0 | | | 30 40 5 83 63 4 4 4 4 | 1 ,, |
| 9 | | | | East | , | 0 | | | 30.29.543836 | 8 11 |
| 10 | | | | 8 N. E. | , , , | 0 | | | 3034534238 | 9 4 |
| 11 | | | | week, | W by 9 | 1 | | 100 | 30.96544134 , 4 | 7, |
| Noon. | | | | wayd | . , | 1 | | | 30,35504134 " " 9 | 7 " |

| Course and distance | made good since preceding noon by observations, | | knots. | ter | oths. |
|----------------------|---|----|---------|-----|----------|
| | (Latitude by D. R. | | • | , | " |
| | Longitude by D. R. | | • | , | " |
| Position at Noon: | Latitude by observations of ⊙ | | 0 | , | " |
| | Longitude by chronometer from Forenoon Observatio | | 0 | , | " |
| | (Latitude by | | 0 | , | " |
| Position at 8 a. m. | Longitude by | | 0 | , | " |
| | (Latitude by | | 0 | , | " |
| Position at 8 P. M. | Longitude by | | 0 | , | " |
| Current during the | time, knots tenths per hour, setting to | he | | | |
| Variation of the Co | mpass by Amplitude 🔿 observed at Sunrise, ship's head | | 0 | , | " |
| Variation of the Con | mpass by Amplitude o observed at Sunset, " | | 0 | , | " |
| Variation of the Co | mpass by Azimuth ⊙ observed at " | | 0 | , | " |
| Variation of the Co | mpass by Azimuth ⊙ observed at " | | . 0 | , | " |
| Water expended dur | ring the preceding 24 hours, | | 0 | 50 | gallons. |
| Water | during the preceding 24 hours, | | | | " |
| Water remaining on | hand fit for use at Noon, | | 94 | 50 | " |
| Coal consumed duri | ng the preceding 24 hours, | | J# tons | 184 | 6 lbs. |
| Coal remaining on h | nand at Noon, | | 22 " | 16 | 5 " |
| | | | | | |

| P. M. | 1 | 1. | | | | | - | 1 |
|-------|-------------|--------|---|---------------|--------------|---|----|---|
| 1 | West | W.dw. | 2 | 30.31504/34 | been in enny | 8 | 9 | |
| 2 | , | " | 1 | 3029504839 | , , | 0 | | |
| 3 | , , , | , | 2 | 2028504238 | seen and | | 4 | |
| 4 | W. by 9 | " | 1 | 30 28484= 38 | , , | | " | |
| 5 | , , | , , , | 1 | 302481134 | cuuring | | | |
| 6 | west | Wish | / | 3020481238 | , , | 0 | " | |
| 7 | W.M.W. | baller | 0 | 30.25 48 4239 | 1 . | | | |
| 8 | No W. by 16 | " | 0 | 30.25 48 4230 | 1 1 | 0 | - | |
| 9 | Port | , | 0 | 30.24 48 4239 | " " | 0 | - | |
| 10 | 168 | " | 0 | 3023491/231 | 7 7 | | | - |
| 11 | My by 6 | " | 0 | 30,22,484138 | , , | | | |
| Mid. | 16.6 | 1 | 0 | Bo20 H8 S/138 | , , | 0 | 11 | |
| | 1 | | | | | | | |

under the command of Douwandes J. Jewiel, U. S. Navy, Friday February 30, 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Junewees and Cool balew blear hours Troud It ho. 8. al May balle Peccioed for issue to creed in Pal Debt 1189 1 165 each greek weat and vegetables of 95 ets freek bread Gross in however port, chain on hop. Workwen from shore came on board Trow 8. a. A. to Meridian Gersign Willy Carety clear with cer cum Watrakys cloud Bright af cold Hagy hoed and gat up firewood and restorved. Cleaned ship einside Beforder of County Officer released M. Rappell Oller, the time for which he was Confined having espiral Thore evoisener engaged in Engineers defartund Olboes, in haws. Gusiga y. At Cloughtofa. rour Meridian to 4 M Glear first harf, seed deally cloy ding over last harf. Fight ain you U. M. W. Painting ship outside. Those ragistener at work in Guginers Debartinent. Cleaned elbow, in harose all pendy in 13to Sent liberty party ashow blear houself by low & M. to Riburght Overcast & cloudy Mixty. Carm. Colear harber Examined and found to be correct. En Gallowan & Navigator.

Gast

16 8 by 16.

10

11

Noon.

30,2443894 30 12 49 12 40

30 12 48 40 99

3012539931

3011603938

2010603934

| Course and distance | made good since preceding noon by observations, | | knots. | te | nths. |
|---------------------|---|----------|--------|-----|----------|
| | (Latitude by D. R. | | 0 | , | " |
| | Longitude by D. R. | | 0 | , | " |
| Position at Noon: | Latitude by observations of ⊙ | | • | , | " |
| | Longitude by chronometer from Forenoon Observati | ons of ⊙ | 0 | , | " |
| | (Latitude by | | 0 | , | " |
| Position at 8 a. m. | Longitude by | | • | , | " |
| | (Latitude by | | • | , | " |
| Position at 8 P. M. | Longitude by | | 0 | , | " |
| Current during the | time, knots tenths per hour, setting to | the | | | |
| Variation of the Co | mpass by Amplitude ⊙ observed at Sunrise, ship's head | ı | 0 | , | " |
| Variation of the Co | mpass by Amplitude ⊙ observed at Sunset, " | | 0 | , | " |
| Variation of the Co | mpass by Azimuth ⊙ observed at " | | • | , | " |
| Variation of the Co | mpass by Azimuth o observed at " | | 0 | , | " |
| Water expended du | ring the preceding 24 hours, | | 3 | 50 | gallons. |
| Water | during the preceding 24 hours, | | | | " |
| Water remaining or | n hand fit for use at Noon, | | 2 | 100 | |
| Coal consumed duri | ing the preceding 24 hours, | | tons | 176 | o lbs. |
| Coal remaining on l | hand at Noon, | | 21 " | 64 | 15 " |
| | | | | | |

| P. M. | Mad | 0 | | | | | | | | 1 |
|-------|------------|----------|------|----------|--------|----|-------|-----------|----|---|
| 1 | M. Emps | Call ! | | 3000 | 3403 | 9 | resen | Cour ring | 0 | 9 |
| 2 | & bif 1 | 6 by 16. | | | 9/03 | | | , | | |
| 3 | 8.640 | E by Ho | 3 | 80005 | 1408 | | | | | |
| 4 | 0:10 | ,) & | 2 | 30. oast | 9103 | | | , | | |
| 5 | 5 350 | , | ' | 80.00 H | 9403 | 9 | o cu | ann | 0 | 1 |
| 6 | 16 6 W. 6 | 1 | | | 0413 | | been | lois enne | 1 | + |
| 7 | 8.6/9 | , 2 | 1 | 30001 | 9428 | 9 | reing | ann | 0 | 1 |
| 8 | E & E. | , 3- | 4, 3 | 300/4 | 9403 | 9 | ,, | 1 | 0 | |
| 9 | 6 6/. 9, | 1 0- | 4 | 30.00 5 | 0423 | 9. | beg. | ceus minh | 5, | * |
| 10 | W. 61 16. | 1 / | | 30 00 15 | 1434 | 1 | La | " | 4 | 1 |
| 11 | W. M. W. | , / | | | 1423 | 9 | 1 | " | 4 | , |
| Mid. | 16 W bef W | , / | 1 1 | 30,035 | 1 /230 | 9 | * | " | 4 | 1 |

January Jernan 144 under the command of , U. S. Navy, , 188%. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Light airs from to 8, freshering and handing to Gay Me, last, hour beleas, Jourse to be a level push bread lelias haves Dept at 430 Bearing for issue to creed go els frush bread lelias haves and St. Topung for from 8. a. M to Meridian Justy around horizon Euros squan last hour Light airs from Gast & H. & Caren second hour blear hand From Meridian to 4 P. M. Series Could believe the light airs from Gast in Soft College house. Received on brand 20 gauge tan Ge. But our show to be said 1061 lbs of Goudennes Marila tops Told if for #6 83 you to perceived the recovery on board. caft technitus Trow At the Miseright airs ho light bring from East.

Trow At the Miseright Diesign Carl. Luring first hong occasions worked squares from East. Class having first hong occasions worked squares from East. Class having first hong occasions worked squares from East. Class having first hong occasions worked to grant from East. Friend WIN Examined and found to be correct. 6. Gallowa

LOS of the United States Stephens of Stephens of Rate,

| | 1 | | | | 0 / | | | | | | | | |
|-------|--------|---------|----------------|-----------------|-----------------------------------|--------|-------|---------|--|-----------------------------|---------------------|--------------------------------|-----------------|
| | | | Reading of | codrses steered | WIND. | | | | BAROMETER. TEMPERATURE. | State of | Forms of | Clear Oths. | he Sea. |
| Hour. | Knots. | Tenths. | Patent Log. | hips Huas | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. Ther. Mr. Water at Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Cles Sky, in 10ths | State of the Se |
| A. M. | | | | He w bef. w. | East | / | | | 30035/1340 | de | and smal | 6 | d |
| 2 | | | | | ,) | 1 | | | 30.04 50 4240 | , | " | 3 | 7) |
| 3 | | | | " | 1 | 1 | | | 30,04 50 4240 | 1 | , | 4 | , |
| 4 | | | | W. by H. | Cale | 0 | | | 300+504240 | , | , | # | " |
| 5 | | | | No w. | , | 0 | | | 308504240 | beul! | cir cum | 3 | " |
| 6 | | | | 1. | , | 0 | | | 3009504239 | , | , | 3 | , ,, |
| 7 | | | | Tw. M. W. | " | 0 | | | 30 13 51 4034 | beens | 1 | # | " |
| 8 | | | | Wayd | // | 0 | | | 30 15 49 4038 | " | 7 | 1 | , |
| 9 | | | | Iw by W. | 8w. | 1 | | | 30 15 49 3934 | , | an rich | 1 | " |
| 10 | | | | 26 | W.M. W | 2 | | | 30 16 5 1 4 1 38 | , | , | 1 | , |
| 11 | | | | 76 16 E | Month | 2.4 | | | 30 16 494138 | tegs | , | 2 | " |
| Noon. | | | | Horsel. | , | 2-4 | | | 30 15 49 4138 | , | , | 1 | + |
| | | | | | | | | | | | | 1 | 1 |

| Course and distance made good since preceding noon by observations, | knots. | tenths. | |
|--|--------|---------|-------|
| (Latitude by D. R. | 0 | , ,, | |
| Longitude by D. R. | ۰ | , ,, | |
| Position at Noon: { Latitude by observations of ⊙ | • | , , ,, | |
| Longitude by chronometer from Forenoon Observations of ⊙ | 0 | , ,, | |
| (Latitude by | 0 | , ,, | |
| Position at 8 a. m. Longitude by | 0 | , ,, | |
| (Latitude by | 0 | , " | |
| Position at 8 P. M. Longitude by | • | , ,, | |
| Current during the time, knots tenths per hour, setting to the | | | |
| Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head | 0 | , ,, | |
| Variation of the Compass by Amplitude ⊙ observed at Sunset, " | 0 | , ,, | |
| Variation of the Compass by Azimuth ⊙ observed at " | 0 | , " | |
| Variation of the Compass by Azimuth ⊙ observed at " | 00 | , " | |
| Water expended during the preceding 24 hours, | 9 | So gal | lons. |
| Water during the preceding 24 hours, | | , | " |
| Water remaining on hand fit for use at Noon, | 12 | 150 | " |
| Coal consumed during the preceding 24 hours, | ton | 150 | lbs. |
| Coal remaining on hand at Noon, | 20 " | 1125 | - " |
| | | | |

| P. M. | 11 | 1 | | | | | | , |
|-------|-------------------------|----------|-----|-----------------|-------|------------|----|---|
| 1 | Brek | Houth a | 2 | 30 18 50 4238 | to a | any Vicint | 1 | 9 |
| 2 | 1 | 16160. | 24 | 3019494188 | beg. | " | 1 | 1 |
| 3 | v' 0 | " | 2-4 | 3023604184 | 1 | | 2 | |
| 4 | 166 | " | 2-4 | 30 2354 1 134 | , | " | | |
| 5 | 16. W. org / | , | 2 | 3022064134 | " | " | 26 | 1 |
| 6 | 16 nth | Lalud | | 30 29/5 by 13 m | 1 | | | |
| 7 | W. M. W. | Dalu | 0 | 302/54/239 | been. | " | - | |
| 8 | W. by 9 | , , | 0 | 3024634239 | 7 | | 3 | |
| 9 | Coist | loish | 1 | 30.2950 4239 | ocen | | 0 | |
| 10 | 11 1 | 21" | / | 3029494138 | bem. | " | , | 1 |
| 11 | M. w by W. M. M. cd. | 16.60 | 1 | 3024 48 403 m | " | 4 | 2 | 1 |
| Mid. | 1. 1. 10. | M. M. W. | | 3029484138 | , | " | 0 | 1 |

under the command of Dounnander Jefreiary 5th, 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Douweres and Centric H. a. 1 Partly clear balein and Digas airs from Gast. Grass in hawel, star. From H. La. & a. A. Gusign aggists Grossin have By order of bourg Offices Talaced Private Stames, with hunder secution charge for being high "winesolut. Deceived in Pay Dept for issues Trouv 8. a. A to Nerisian bord Survey to use at intervals during wooder. Those booth to I w. Glear haise! at 9:30 inspected at quarters, they read Trour Meridian to L. Squares Light to moderate brein from found security for the By order of Joseph for moderate breing from Joseph for Meridian to L. Squares Light to moderate breing from Joseph Med Stading Spices released Pol Stading Joseph Sound for Sining Lenies for harder to having become fit for duty Held Sining Lenies. From H. to 8 P. A. Surian, W. J. Places & M. Lourney Cloudy Calewand light heightone 16 6 the Places & M. Lourney, 64, W. Ca. Friegang, 4a's, under senting charge to awais their grown sohrschaf returning for liberty crewk. The have, for the Miderial from west to M. Clear have blowery and harpy. Light aims from west to M. Clear have. Curry Want Examined and found to be correct. Sol alloway

3023 4 44 034

30,445 42,39

G 6/9.

Noon.

| Course and distance made good since preceding noon by observations, | knots. | t | enths. |
|--|--------|-----|----------|
| (Latitude by D. R. | 0 | , | " |
| Longitude by D. R. | | , | " |
| Position at Noon: Latitude by observations of ⊙ | | , | " |
| Longitude by chronometer from Forencon Observations of ⊙ | 0 | , | " |
| (Latitude by | | , | " |
| Position at 8 a. m. Longitude by | • | , | " |
| (Latitude by | 0 | , | " |
| Position at 8 P. M. Longitude by | 0 | , | " |
| Current during the time, knots tenths per hour, setting to the | | | |
| Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head | 0 | , | " |
| Variation of the Compass by Amplitude ⊙ observed at Sunset, " | | , | " |
| Variation of the Compass by Azimuth ⊙ observed at " | 0 | , | " |
| Variation of the Compass by Azimuth ⊙ observed at " | 0 | , | " |
| Water expended during the preceding 24 hours, | 3 | 50 | gallons. |
| Water during the preceding 24 hours, | | 1 | ш |
| Water remaining on hand fit for use at Noon, | 11 | las | " |
| Coal consumed during the preceding 24 hours, | to | 160 | 75 lbs. |
| Coal remaining on hand at Noon, | 19 | 160 | 75 lbs. |

| P.M. | 6.1 | 2 / 0 | | 1 1 1 |
|------|------------|-----------|------------------|-------------------|
| 1 | Eng | Garl 2 | 30.14 4 4 4 3 40 | ocgo. and haif og |
| 2 | Gash | | 30,156/4542 | vezz , 0 " |
| 3 | 16.6. | 16.67 | 30126045 44 | |
| - 4 | 616 | 6. 166 12 | 30,06 32/04/ | 7 |
| 5 | " | , 2-3 | 30121524342 | |
| 6 | | , 2-3 | 3009504241 | , , 0 , |
| 7 | , , | 1-2 | 30.08 194041 | bes , 0 , |
| 8 | 16.8 4. No | | 3008504942 | oct. 4 24 |
| 9 | W. Sw. | W. Jw. , | 3010504444 | ocho, 04 |
| 10 | W. 76 W. | b, aun o | 3010504444 | ves " 0" |
| 11 | 1 | , 0 | 3010504544 | , , 0, |
| Mid. | No. w. | , 0 | 200850 25 45 | been cus str of " |
| | | 11 | | |

under the command of Douweaudy J. Jewell, U.S. Navy,
Mouday February 6th, 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Communes and Centris H. a. M. Derech cemerins and cir ceme clouds. Hogy bold. From 4 to 8 a X reiding W. J/ fruit of whatch. Calm remainers. Received 95 lbs presh bread for crus Trout 8. Q. A. Lo Meridian CA & Sighting seul W9A Cloudy by hazif Fight to grett bruge from Gof K. at 9.3 runting and inspected crees at quarters they expressed Harries at skinnings driel. Cefareined magazing of shell room flood cocks, see creks to foregate funds Try que cotting " electrical apparations " found are in good condition. By order of the Court of Officer released low Tresegony, Sair a Midowough GH. from deutres charge they having hearne schiet. By my of joury Offices Destois, I C. a, is to be confined for try rights in double isous for dis-Tobe Dience of orders and disrespect to the Offices deck. Workmen from their my agro in lingers Dept, lelias hawle! R J. Barret Jais, referted his teren of quilistenent as experts. Curing Colf Pour Residian to H TM Surge Court Cum William Longling of low raining apteriors. Dight aim to bying from East 4 16 & W. J. Angan Bland) left the ship on a Says leave Scraping ineits frainteents on quater orch Selean haves Thor workenen engaged in Engris Dept Kommenter Leas have bleat hairse from f. The Missings Guisin with Durgling rain 1st hour rain 2 19 30 hours. Clearing Alignely every wind at end of watch Fightying Do hour. Colon of trush with the hour Galen afterwark Clear haise. Gusigo Call En Galloway W Navigator. Examined and found to be correct.

LOC of the United States, I teagues Ssey, 38 Rate,

| | | | | | WIND. | | | | BAROMETER. TEMPERATURE. |
|-------|--------|---------|---------------------------------|---|-----------------------------------|--------|-------|---------|---|
| Hour. | Knots. | Tenths. | Reading of Patent Log. | COURSES STEERED by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. att'd. Ther. att'd. There is in inches. att'd. There is in inches. There is in inches in inches. There is in inches in inches is inches in inches. The inches is inches in inches |
| A. M. | | | | Mary w. | W. H. W. | 1 | | | 30,00/50 forthe remount of |
| 2 | | | | | 1 | 1 | | | 30.06 50 sf H sf 3 beu 1 2 1 |
| 3 | | | | 16 W | " | 1 | | | 3005 50 HH 13. " circus 6 |
| 4 | | | | , , | , " | 1 | | | 3005 50 4342 11 11 1/1 |
| 5 | | | | Now. by W. | baller | 0 | | | 30.0000 4342 bef, of, |
| 6 | | | | 16 by 6 | / | 0 | | | 30.04 49 1241 |
| 7 | | | | 16w | | 0 | | | 30 of 40 fox 1 , " B, |
| 8 | | | | 16 W. w. 16 | " / 0 | 0 | | | 300/1/1/24/ |
| 9 | | | | Howful. | 616 | 1 | | | 3006414413 " " " " |
| 10 | | | | 98646 |) | 1 | | | 30.06484141 1 1 4 |
| 11 | | | | , , | 9.6 | 1 | | | 30.04 18 46 45 bed , 6, " |
| Noon. | | | | 46 | do du | 1 | | | 30.02494946 |
| | | | | | | t | | | |

| Course and distance | made good since preceding noon by observation | s, | knots. | tenths. |
|---------------------|---|------------------|---------|----------|
| | (Latitude by D. R. | | 0, | " |
| | Longitude by D. R. | | 0 , | " |
| Position at Noon: | Latitude by observations of ⊙ | | 0 , | " |
| | Longitude by chronometer from Forenoon O | bservations of ⊙ | , | " |
| | (Latitude by | | 0 , | " |
| Position at 8 a. m. | Longitude by | | 0 , | " |
| | (Latitude by | | 0 , | " |
| Position at 8 P. M. | Longitude by | | 0 , | " |
| Current during the | time, knots tenths per hour, so | etting to the | | |
| Variation of the Co | mpass by Amplitude o observed at Sunrise, shi | ip's head | 0 / | " |
| Variation of the Co | mpass by Amplitude ⊙ observed at Sunset, | " | 0 / | " |
| Variation of the Co | mpass by Azimuth ⊙ observed at | " | • , | " |
| Variation of the Co | mpass by Azimuth ⊙ observed at | " | . , | " |
| Water expended du | ring the preceding 24 hours, | | 350 | gallons. |
| Water | during the preceding 24 hours, | | | " |
| Water remaining on | hand fit for use at Noon, | | 105 | 0 " |
| | ng the preceding 24 hours, | | tons 15 | 90 lbs. |
| Coal remaining on l | hand at Noon, | | 19 " 10 | 10 " |
| | | | | |

| P. M. | | , , | | 1 |
|-------|-----------|---------|---------------------|---------------|
| 1 | Sw.by. U | W.by of | 30015011444 | beg incum 3 9 |
| 2 | Woil 9 | , 9 | 3000504844 | , 3,1 |
| 3 | | , 2 | 3000 out of uf al 4 | in the |
| 4 | gud. | , , 3 | 3001504811 | 1 1 |
| 5 | oust west | West 9 | 3000504814 | , 5,1 |
| 6 | | ,)2 | 30 0a 4946 HH | " " " |
| 7 | World | , 2 | 3002484644 | cin cum 6 1 |
| 8 | , , | " 2 | 30.00 Hal 45 43 | " 1 1 |
| 9 | W. H. W. | , / | 3000 46 45 43 | tal of |
| 10 | W. W/ X | 4 . / | 300/1464643 | 1, 1/1 |
| 11 | 16 16 W | , / | 3002444543 | 8 1 |
| Mid. | wgu | , / | 300214443 | . 8 " |
| | | | | |

under the command of Source Just de Jessel, U. S. Navy, Just de Just de Jessel, 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Douwerces and Cutis HaM How rose at 2:45. Clear hower. Thank Fight airs from to Kus Trouve It ho f. a A Joegay balew Deceived In visited in Pay Proposed 18 3/4 lbs each of fried wear and vegetables and go lbs freeh bread, bless haves Cusing with Party clears with cir cum Water clouds. Foggy 1st part, hazy afterwarf Light variable airs. Tide irregular, French quilbook "Parceval" lift the hazbor at 910 week to quarters for weitter winspecking after which dress Marines & 2. Serupany at Infantry. Hoister fit to dry Seraking inite paints og to ou greater dick. Those workenen engaged in Engris dept. Clear hayose. A Al Toquestone Jais to hary weather Tight breeze from Word Thom working in hairse, Skarboard chairs on half. The bulloacks. About Jun west leleaged harvel leguling to Lestis, 15 9 as per sold blear haires. The Histogram horizon Sustains from tong Durigh WI Examined and found to be correct. 3. Galloway

LOG of the UNITED STATES sored in the harbor of BAROMETER. TEMPERATURE. WIND. COURSES STEERED Direction by Standard Compass. A. M west 30.02454441 16 Wa 3001HA 4341 0 W. Ko W 30,0143 4239 Wby 3001444138 2999414038 west 2999414038 2994 14034 2999 Al HO3'M 8 3000434138 299944 4239 10 2998 48 46 43 11 2996 A8 Ay AA Noon. Course and distance made good since preceding noon by observations, Latitude by D. R. Longitude by D. R. Position at Noon: Latitude by observations of o Longitude by chronometer from Forenoon Observations of ⊙ Latitude by Position at 8 a. m. Longitude by (Latitude by Position at 8 P. M. Longitude by Current during the time, knots tenths per hour, setting to the Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head Variation of the Compass by Amplitude ⊙ observed at Sunset, Variation of the Compass by Azimuth ⊙ observed at Variation of the Compass by Azimuth ⊙ observed at Water expended during the preceding 24 hours, during the preceding 24 hours, Water remaining on hand fit for use at Noon, Coal consumed during the preceding 24 hours, Coal remaining on hand at Noon, P.M. 29.90 4944/3 west west 2990494643 W. 64 9 490 298948 1643 west W. by S. beg circum 5 11 29.8948 4642 29.89st of hosta W. 6/ 16. 299/4/1/39 0 29 9 44654338 2-4 29.98 +3 10 3 6 nmg 10 4 2-4 30,03423834 , 10 1 3003403230 10 11 2-4

3004403936

Whys

Mid.

under the command of Sommander J. Flowers June 1888. , U. S. Navy, RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Dominues and Centil H City Clear us coal bale wlightain fever work blear hause Times Private Businew in Ith Greward sentry charge to await his getting sober A. Lyengum week WYK Trought to 8 C Gold by hary with any the clouds, Light airs to Trung from loss, Tidal current not appreciable. Released from confiningent & Elistis, 15a as find a set Received for issue to crud a 4 lbs first bread. I have juntemen for Eugines Light cause ou board bleat hains, Fiberty party rehurned Habe colors with a Japanese gembout leaving the harting of M. Croundstyne. Trout 8. C. M. no Verisian Cloudy were aging to fair eventher will right airs from Tours first half " calculant half. Torraping bulevartes. at 9:30 unitered " inspected at quarters " unewediately after o rules divisiones as follows! I'm dia Infantry to His attellered of Chinese servants of Cocober Sis at Cefter Grossice hards front chair ou to De By order of County Officer placed of Cusumen, Colds with sentres charge for heing duties influence of ligures. Jusign Wy Trouve Verifier to 4 . I Listing of water light ain from 996 Fach har blight to greet breeze from love (2) W. The Light rain the thew haif During last harf. blear harde Workenen from the guy age af cook is augo CA. F. Feguring Thouse It to . V. Jak legar and cool. Hodorat to shiff breeze from W. by I Workenew at work in Engris Sept. Beforder of County Offices placed del Haby Original Grunden bleas hours. from Why Fight he woodrate lever have first harf of water wind CA. Seemany E. G. Galloway Noigo Examined and found to be correct.

of the UNITED STATES gored in the harbor s BAROMETER. TEMPERATURE. Direction by Standard Compass. A. M. 30,00 A 138 30 3004403430 W. by 16. 3000 403435 How will with 30 00 40 34 30 30,00393434 anu oto W. 6. 16. 30,12393135 30 10 3 1 35 33 30,4383532 30 14 383633 West 30,4393831 10 3 3019423834 11 30,18 + 9 39 30 Noon. Course and distance made good since preceding noon by observations, tenths. Latitude by D. R. Longitude by D. R. Position at Noon: Latitude by observations of ⊙ Longitude by chronometer from Forenoon Observations of \odot Latitude by Position at 8 a. m. Longitude by Position at 8 P. M. Current during the time, tenths per hour, setting to the Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head Variation of the Compass by Amplitude ⊙ observed at Sunset, Variation of the Compass by Azimuth ⊙ observed at Variation of the Compass by Azimuth ⊙ observed at Water expended during the preceding 24 hours, during the preceding 24 hours, Water remaining on hand fit for use at Noon, Coal consumed during the preceding 24 hours, Coal remaining on hand at Noon, P. M. west 30,14 18 40 36 3015 44 4036 3000 1/5 1/2 34 w. H. w. 30.15464338 3016st 64438 W. M. W. 30,1646 4234 30 14 Hef et 1 3 mg 3014/23935 3019423935 2 Ky by W 3021103832 302/1/23835 11 WKW. 30.51 /23/34 Mid.

Doungarder J. Jeweel, U. S. Navy, Thursday February 9th, 1888. under the command of RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Commenced and Centis of Co. M. Glean hangel. 1/12 Hoygatt From the 8 a Man even her Hazy Lightan from to by Just haif by they greet decreasing ho light breeze from W. by B. Received in Part Dight for issue the cred of fresh breeze from W. by the of bread. Ichen haves. There & So o my G. K. Trous & and the Cold grants breeze from lovest. The first of cold grants breeze from lovest. I guary find hours. Clear have at 9.20 minspected all quarters. Element Powers Sievers at Rights, Infautry Company at Rifles. Received on board of o yos hunting subject to inspection. as Techion row Herisian to 4 CM W. J. W. Tent working frants with Dailwakers Mate of short Estressed Engris Dept. Illear havog. Sury Wy I w. Then light brug from W. H. W. lelear haver. Light to moderate brug fine, J. P. Secution Trown 8. O. M. h. Medingh June 4. H. W. Began Distribus. Gusign Poggatt Examined and found to be correct. Les Galloway Navigator.

LOCY of the United States Steeling Steeling Steeling, 38 Rate,

| | | | | | | | | | | | | | - |
|-------|--------|---------|------------------------|--------------------------------------|---------------------------------------|--------|-------|-------|---------------------------|---|------------------------------------|----------------------------------|-------------------|
| ar. | Knots. | Tenths. | Reading of Patent Log. | COURSES STEERED by Standard Compass. | WIND. Direction by Standard Compass. | Force. | Heel. | eway. | Height Ther. TEMPERATURE. | State of the Weather, by symbols. | Forms of Clouds, by symbols. | Prop. of Clear Sky, in 10ths. | State of the Sea. |
| Hour. | Kn | Ter | | hips bead | | Fo | Не | 3 | B A W | | | Pr | Sta |
| A. M. | | | | 16.w. | W. M. W. | 1 | | | 302/423434 | fe | cum rund | 3 | 9 |
| 2 | | | | W. M. W. | , | 1 | | | 3022433834 | | ,, | 4 | 0 |
| 3 | | | | 1 | " | 1 | | | 3022423834 | " | | ef | 1 |
| 4 | | | | " | " | 1 | | | 30.21433835 | , | , | 2/ | 1 |
| 5 | | | | , | , | 1 | | | 30.20433434 | , | " | 8 | 1 |
| 6 | | | | Now. | , | 1 | | | 30,18403434 | , | / | 9 | 1 |
| 7 | | | | wgw | , , | 1 | | | 3020423836 | , | , | 4 | 1 1 |
| 8 | | | | west | Whyto | 1 | | | 3021434036 | " | ,, | of | " |
| 9 | | | | W. 16W | , | 1 | | | 3021444034 | ben | " | 8 | 1 |
| 10 | | | | W9W. | , | 2 | | | 3020434034 | , | " | 8 | 1 |
| 11 | | | | west, | . " / | 3 | | | 2020444134 | , | " | 6 | " |
| Noon. | | | | W 61 76 | W. by 9 | 3 | | | 30 18 1 54238 | 4 | " | 5 | 1 |

| Course and distance made | good since preceding noon by observations | 3, | knots. | | tenths. | |
|--------------------------|---|------------------|--------|-------|----------------|--|
| (Ia | titude by D. R. | | 0 | , | " | |
| | ngitude by D. R. | | 0 | , | " | |
| Position at Noon: La | titude by observations of ⊙ | | 0 | , | " | |
| Lo | ngitude by chronometer from Forencon Ob | oservations of ⊙ | 0 | , | " | |
| | titude by | | 0 | , | " | |
| Position at 8 a. m. Lo | ngitude by | | 0 | , | " | |
| (Ia | titude by | | 0 | , | " | |
| Position at 8 P. M. Lo | ngitude by | | 0 | , | " | |
| Current during the time, | knots tenths per hour, se | tting to the | | | | |
| Variation of the Compas | s by Amplitude o observed at Sunrise, shi | p's head | 0 | , | " | |
| Variation of the Compas | s by Amplitude o observed at Sunset, | " | 0 | , | " | |
| Variation of the Compas | s by Azimuth ⊙ observed at | " | 0 | , | " | |
| Variation of the Compas | s by Azimuth o observed at | 46 | 0 | - | " | |
| Water expended during | the preceding 24 hours, | | = | 35 | O gallons. | |
| Water Distil | during the preceding 24 hours, | | 10 | 80 | a " | |
| Water remaining on hand | d fit for use at Noon, | | 1 | 80 |) " | |
| Coal consumed during th | e preceding 24 hours, | | / tor | ns 21 | 9 " 55 lbs. | |
| Coal remaining on hand | at Noon, | | 15 " | 14 | 60 " | |
| | | | | | | |

| P. M. | , | , , | | | | | | - |
|-------|---------------|------------|---|-------------------|------|----------|----|-----|
| 1 | west | west 3 | 3 | 30,13444338 | bes! | eis eum | 6 | 9 |
| 2 | . W. GW | , , | 3 | 3012 41/4339 | 1 | , | 5 | " |
| 3 | 1. | " 3 | 3 | 3010 48 46 40 | " | , | 5 | 1 |
| 4 | gw. by y. | " | 3 | 300gfg4540 | , | cy cun | 8 | , |
| 5 | W. by 9 | , ", , , ; | 2 | 30.06 etal etal o | , | 4 | 5 | " |
| 6 | M. W. by W. | w. 16. cd. | / | 30.00 ft 6 ft st | , | | 6 | ,11 |
| 7 | No W. | | | 30.00/46444 | " | | of | 11 |
| 8 | W. 76 W. | Calul a | 0 | 3000 flo stafet 2 | " | , | | |
| 9 | 16 W. by. 16. | , , | 0 | Book destall | , | cue | 8 | , |
| 10 | | | 0 | 30 of the felf! | , | cuyets | | |
| 11 | w. H. W. | , (|) | 300/4/5/4/4/2 | | , | 6 | " |
| Mid. | W. H. W. | , , | 0 | 3099 4644 42 | , | cis curs | 5 | " |

under the command of Communication of Lebruary 10th, U.S. N. Priday February 10th, 1888. , U. S. Navy, RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Jour W. Now. Clear with cum. and winds clouds bout Light airs From 4, to 8. a. A. Busign Wigh Received for crew, 114/2 ess fuch but, 114/2 its fresh beg stapes an 94 chs brush From 8. a. A ho Marisian freely Greek buy from W. by & ho W by d. affg. as unnettered crew, an quarters them en credes crempanies, Ancines at bay met writing " himse servants at riples. Workmen From Herisian ho H M Coes Hazer over land Cloud cur inner Gruth bruz from crest. By nos of leaving Offices f. J. Gurity, 94/5 % 6. M. Mahon blea were awarded o elights confinement in double irous fory of to M hive turn to in the morning for greting frunk while on I white Tenore sub clocking does at anching the appeals of the late Jenge His deken Jas, Exercises Harines in 2. cutter, at Dulling. Painter weite planking on quarter drek, Those Thouse the S. S. Dalu W light airs & brush from west & W. 6 co Trow & The Metnight of cool Hazel Callen Austrilling. Curing Wille

Examined and found to be correct.

Cen Gallowaya Navigator.

LOG of the United States Steering Steeling Rate,

| Hour. | Knots. | Tenths. | Reading of Patent Log. | COURSES STEERED by Standard Coupass. | WIND. Direction by Standard Compass. | Force. | Heel. | eeway. | BAROMETER. THE Height in inches. Ther. att'd. | | State of | Forms of Clouds, by symbols. | Prop. of Clear Sky, in 10ths. | State of the Sea. |
|-------|--------|---------|------------------------|--------------------------------------|---------------------------------------|--------|-------|--------|---|-------|----------|------------------------------------|----------------------------------|-------------------|
| A. M. | × | T | | hips clas | | - | - | - | ~ | 4 1 | | - | A S | 2 |
| 1 | | | | W.lef. H. | Calul | 1 | | | 29.96464 | 543 | bo | cin un | 5 | 9 |
| 2 | | | | w. gw. | wow. | 1 | | | 29.93464 | | , | " | 3 | , |
| 3 | | | | 9 w. by w. | , | 2 | | | 29 90H 6 H | 542 | , | cuy rich | 1 | " |
| 4 | | | | W. Jul | " | 2 | , | | 29.90444 | 542 | 1.5 | " | 0 | " |
| 5 | | | | W. Gw | " | 2-2 | | | 29.89 48 4 | 1 | bey. | " | 3 | 1 |
| 6 | | | | 1.11.11 |) , , , , | / | | | 29.88 fg H | . / / | 15 | " | 2 | " |
| 7 | | | | W. by 16. | west | 2 | | | 29.84 484 | ' / | 1 | " | 2 | " |
| 8 | | | | west | W', l | | , | | 29.88484 | | ,," | ciscum | # | 4 |
| 9 | | | | W. M. W. | 16 W. | 24 | , | | 29.88494 | / / | ocgy. | 1 | 5 | " |
| 10 | | | | No W. by No Ma W. by W. | " | 2-4 | | | 39.89504 | | " | " | 9 | 11 |
| Noon. | | | | W. by 16 | " | 2-4 | | | 29.9250 1 | / / / | " | , | 9 | 1 |
| | | | | 0.07.0 | | | | | 1.1401 | 1 | | | 1 | " |

| Course and distance made good since preceding noon by observations, | knots. | tenths. | |
|--|---------|-------------------|--|
| (Latitude by D. R. | 0 , | " | |
| Longitude by D. R. | 0 , | " | |
| Position at Noon: Latitude by observations of ⊙ | 0 , | " | |
| Longitude by chronometer from Forenoon Observations of ⊙ | 0 , | " | |
| (Latitude by | 0 , | " | |
| Position at 8 a. m. Longitude by | 0 , | " | |
| (Latitude by | 0 | 41 | |
| Position at 8 P. M. Longitude by | 0 | " | |
| Current during the time, knots tenths per hour, setting to the | | | |
| Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head | 0 | , ,, | |
| Variation of the Compass by Amplitude ⊙ observed at Sunset, " | 0 | ,, | |
| Variation of the Compass by Azimuth ⊙ observed at " | 0 - 1 | , ,, | |
| Variation of the Compass by Azimuth ⊙ observed at " | · / | , ,, | |
| Water expended during the preceding 24 hours, | A. | 50 gallons. | |
| Water Sistules during the preceding 24 hours, | 13 | 50 gallons. | |
| Water remaining on hand fit for use at Noon, | 28 | oa " | |
| Coal consumed during the preceding 24 hours, | / tons/ | 00 " 1815 lbs. | |
| Coal remaining on hand at Noon, | 13 " | 1885 " | |
| | | | |

| P.M. | 1.1 | 1 1 | | | , | , | d |
|------|------------|-----------|-----|-------------------|--------------|------|----|
| 1 | 16 w. | Hoyolf 16 | 3 | 399459441 | boy cir cuna | 6 | 1 |
| 2 | No world | Haris | 3 | 29 01. 60 45 40 | 1 | 5 | |
| 3 | How, by Mo | " | 2 | 24.48 60 45 40 | , str | 1 | |
| 4 | Mores | " | 2 | 29.99 614641 | , , | 5 | , |
| 5 | No by w | " | 2 | 3000 06 1339 | | 5 | " |
| 6 | Hareh | " | 2 | 30.00 59 4/38 | " | 1, | , |
| 7 | No. by W. | " | 24 | 30.00 56 3836 | beg. | 4 | 1 |
| 8 | , | " | 24 | 30.00 5 4 3 4/3 4 | , , | 8, | 1 |
| 9 | , | " | 2-4 | 30 00 50 3434 | " " | 14 | 1 |
| 10 | " | " | 24 | 30 on to 3633 | , , | 8 | 11 |
| 11 | 1 " | 4 | 2.5 | 2998453633 | tage none | , 10 | 4 |
| Mid. | Morels | | 3-6 | 2996423633 | tzg. non | 10 | " |
| | | | | | | | - |

under the command of Commanders J. February 114, 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Four H. ho. 8. Ce. A Sleasant. Light airs to greet trus pour US. W. gud week, break fresh Clear hawre gud week, Stopped drokeling. Received 95 lbs fresh break fresh Clear hawre hawre. From 8. a A to Meridiain Gusing Court Light to my cloud Light to my mits breize in light squall from M. W. Hazy over land. aired his ding. Geroed out clean humanichs at quarters tent dirty hammocks ashore to be exashed. Beforder of bould Offices, released Cot Bussman, 4 9 165. Shore workenen engaged in Engis Dept. W. F. Morgan, Dek Suices, returned From Meridian host My Cantes of Great to light brugg from holding spirsterting on quarter Orch bless have The for one From A to. 8 Of Partly clear with cir cum I str clouds bold Light he moderate brees in light squalls from Hort Those working in Engr's Dept Knocked

blear house. (Seepois, 1.5a, GH: Mahn, Hea, & J. F. Jundy, Jais, as persons.

From Hord blavoing in squall leleas hours. The one one of

Examined and found to be correct.

Es Galloway & Navigator.

LOG of the United States

Log of the United States

Wind.

Barometer. Temperature.

State of the Weather, by symbols.

State of the Weather, by symbols.

Direction by Standard Compass.

Direction by Standard Compass.

A. M.

A. M.

| | | | Reading | 1 | WIND. | | | | BAROMETER. | TEM | PERAT | URE. | State of | Forms of | lear ths. | Sea. |
|-------|--------|---------|----------------------|----------------------|-----------------------------------|--------|-------|---------|------------------------------|-------------------|-------------------|----------------------|-----------------------------|---------------------|------------------------------|--------------|
| Honr. | Knots. | Tenths. | of Patent Log. | by standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leewny. | Height in inches. Ther att'd | Air, Dry Bulb. | Air, Wet Bulb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Cle Sky, in 10th | State of the |
| A. M. | | | | no by w | North | 3 | | | 30.0253 | 36 | 33 | | benj. | euw | 9 | d |
| 2 | | | | 16. 16. 6 | , | 2 | | | 30,055 6 | | | / | , | " | 9 | |
| 3 | | | | No by W | ,, | 2 | | | 30 0558 | | | | by. | une | 10 | " |
| 4 | | | | 16 & m/ 16 | - | 2 | | | 300559 | 131 | 33 | | , . | , | 10 | " |
| 5 | | | | barth | , | 1 | | | 300/60 | | | | 00 | encu ring | 0 | " |
| 6 | | | | 16 16 6 | " | 1 | | | 30,060 | | | | , | , | | 1 |
| 7 | | | | " | 1 " | 1 | | | 301160 | | | 1 | , | , | 10 | |
| 8 | | | | Maju! | 16 16 W | 1 | | | 30 09 60 | 41 | 38 | | , | " | 0 | |
| 9 | | | | Horth | | 1 | | | 301260 | | | | , | | 1 | , |
| 10 | | | | | " | 2 | | | 30,26 | | | | 60 | cis enun | 3 | " |
| 11 | | | | 16.16.6 | .,, | 2 | | | 30126 | 1 | | 1 | | " | 2 | " |
| Noon. | | | | 16 8 af 16 | " | 2 | | | 301161 | | 1 | 1 | , | " | 2 | " |
| | | | | | | | | | | | | | | | | |

| Course and distance | made good since preceding noon by observations, | | knots. | te | enths. |
|----------------------|---|-------------|--------|-----|----------|
| | (Latitude by D. R. | | 0 | , | " |
| | Longitude by D. R. | | 0 | , | " |
| Position at Noon: | Latitude by observations of ⊙ | | 0 | , | " |
| | Longitude by chronometer from Forenoon Observa | ations of ⊙ | 0 | , | " |
| | (Latitude by | | 0 | , | " |
| Position at 8 a. m. | Longitude by | | 0 | , | " |
| | (Latitude by | | • | , | " |
| Position at 8 P. M. | Longitude by | | 0 | , | " |
| Current during the | time, knots tenths per hour, setting | to the | | | |
| Variation of the Con | mpass by Amplitude o observed at Sunrise, ship's he | ad | 0 | , | " |
| Variation of the Con | mpass by Amplitude ⊙ observed at Sunset, " | | 0 | , | " |
| Variation of the Con | mpass by Azimuth ⊙ observed at " | | 0 | , ` | " |
| Variation of the Con | mpass by Azimuth ⊙ observed at " | | 2 | , | " |
| Water expended dur | ring the preceding 24 hours, | | 20 | 50 | gallons. |
| Water | during the preceding 24 hours, | | , | , | " |
| Water remaining on | hand fit for use at Noon, | 6 | 24 | 50 | " |
| Coal consumed during | ng the preceding 24 hours, | | tons | 133 | 5 lbs. |
| Coal remaining on h | and at Noon, | | 13 " | 55 | 50 " |
| | | | | | |

| P. M. | 1616 | No. 4. 8. | 2 | 30,115,14238 | bs | cis cum | M |
|----------|-------------|-----------|----|----------------|------|----------|------|
| 2 | 16 by W. | , | 2 | 3008 48 4 238 | , | " | 3, |
| 3 | 16,76.8 | " | 2 | 3000 45 4/34 | , | " | 4 1 |
| 5 | More | , | 13 | 300 of st 1 36 | brok | | 6 " |
| 6 | 16 & by 16. | " | 2 | 30.08 43 4036 | bey. | " | 5 " |
| 7 8 | 16 in 69 | " | 2 | 30 094 13936 | , | cun stry | -8 " |
| 9 | No by w | " | 1 | 3013413434 | | , und | |
| 10 | Morel | 1 " | 1 | 3012/03836 | 6.9. | " | |
| 11 MG | Houth M. | 10, aliu | 0 | 30.12/13936 | " | 4 | 10 " |
| Mid. | " | " | | 30,12403835 | " | | 10 |

under the command of SunnayDets Lebruary 12th, U.S. Navy, RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Journal Coll Hay haves!

Lough the Seas Suint cloud Sound Light to gutt breeze from the Seas Suint with and Suint cloud bout boil Fight air from the forth M. At analy up the dock Reland & Season 13a, J. J. Gerray of herd beef we reptated as per order. Received for your to creek 11/1/ besset of fresh bread Library Gartyrtumed. Clas ham, Trous 8. at the Revision of Jest bread Library Gartyrtumed Clas ham, brown & Color of Cool Fight breek from U. H. W. at 9.5 unisted and liberty party our shore. Olean harve. From & M. h. Mishings Surger Gusign WIN from Major leless, hanse French WITh

Examined and found to be correct.

Tes Galloway Liens & Marigator.

LOG of the United States Stegmen "Sssy", 3d Rate,

| | | | Reading | | WIND. | | | | BAROMETER. | TEMP | | | State of | Forms of | Hear ths. | e Sea. |
|-------|--------|---------|----------------------|---------------------------------------|-----------------------------------|--------|-------|---------|--------------------------------|-------------------|-------------------|----------------------|-----------------------------|---------------------|--------------------------------|-----------------|
| Hour. | Knots. | Tenths. | of Patent Log. | Coykses STEERED by Standard Compress. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. Ther. att'd. | Air, Dry Bulb. | Air, Wet Bulb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Clea Sky, in 10ths | State of the Sa |
| A. M. | | | | W Ho W | Carw | 0 | | | 301238 | 38 | 36 | | by. | ume | 10 | d |
| 2 | | | | W 6.1 16. | , | 0 | | | 30.1338 | | | | , | , | 10 | 4 |
| 3 | - | | | 3 " | , " , 1 | 0 | | | 30.1338 | 38. | 35 | | 4 | " | 10 | " |
| 4 | | | | west | W. J. Ro. | 1 | | | 301138 | 38 | 35 | | " | " | 10 | 11 |
| 5 | | | | M. W. by W. | baller | 0 | | | 301038 | 34 | 35 | | beg. | in cur | 9 | |
| 6 | | | | 16 16 W. | M. M. W. | 1 | | | 301038 | 38 | 35 | | 1 | a's | 8 | " |
| 7 | | | | No 6 by 6. | baller | 0 | | | 30 12/2 | 38 | 9 5 | | " | , | ny | 11 |
| 8 | | | | East | 1,, | 0 | | | 30,1351 | 42. | 40 | | 1 | " | 4 | , |
| 9 | 66 | | | 6961 | Touch | 1 | | | 30,1459 | 43. | 40 | | 10 | cis cum | 5 | 1 |
| 10 | | | | 98,619 | " | 1 | | | 301660 | / | , | | , | , | 6 | 11 |
| 11 | | | | 90/6 | " | 1 | | | 3010 5-8 | 1 | | | , | , | 6 | " |
| Noon. | | | | | , | 1-2 | | | 301458 | 1 / | 1 | | " | , | 6 | , |
| | | | | | | | | | | | | | | | | |

| Course and distance | made good since preceding noon by observations, | knots. | t | tenths. | |
|----------------------|--|--------|-----|----------|--|
| | (Latitude by D. R. | 0 | , | " | |
| | Longitude by D. R. | 0 | , | " | |
| Position at Noon: | Latitude by observations of ⊙ | 0 | , | " | |
| | Longitude by chronometer from Forenoon Observations of ⊙ | 0 | , | " | |
| | (Latitude by | 0 | , | " | |
| Position at 8 a. m. | Longitude by | 0 | , | " | |
| | (Latitude by | 0 | , | " | |
| Position at 8 P. M. | Longitude by | 0 | , | " | |
| Current during the | time, knots tenths per hour, setting to the | | | | |
| Variation of the Con | mpass by Amplitude o observed at Sunrise, ship's head | 0 | , | " | |
| Variation of the Con | mpass by Amplitude ⊙ observed at Sunset, " | 0 | , | " | |
| Variation of the Cor | mpass by Azimuth ⊙ observed at " | 0 | , | " | |
| Variation of the Con | mpass by Azimuth ⊙ observed at " | . / | , , | " | |
| Water expended dur | ring the preceding 24 hours, | 9 | 50 | gallons. | |
| Water | during the preceding 24 hours, | 2 | | u | |
| Water remaining on | hand fit for use at Noon, | 2 | 100 | a " | |
| Coal consumed durin | ng the preceding 24 hours, | tons | 183 | 5 lbs. | |
| Coal remaining on h | and at Noon, | 2 " | 140 | 55 " | |
| | | | - | | |

| - parametersonaum | AND DESCRIPTION OF THE PARTY OF | The state of the s | 1 | MINOR COLORS | | | | | - |
|-------------------|--|--|-------|--------------|----------------|-----|-----|------|---|
| P. M. | | Ide | 1 | 1 | | 1 | | / | 1 |
| 1 | | 7. 0.6. | ruth | 3 | 3012514339 | box | oto | 0 | 7 |
| 2 | | 1,,, | 1,1 | 3 | 3011564039 | | | 6 | |
| 3 | | 9 outs | 99W. | 3 | 30,056 4339 | " | " | 8 , | " |
| 4 | | | | 3 | Boogsuft of to | ,, | | 8. | " |
| 5 | | " | , | 2 | 300956 4340 | 1.0 | " | of , | |
| 6 | | 1'0 | 1 , | / | 3009064341 | | , | 6 | |
| 7 | | 96 | Malen | 0 | 30 085 643 40 | 1 | , | 9 | , |
| 8 | | 16 6. by 16 | , | 0 | 30,1006 4340 | " | , | 9 | , |
| 9 | | 16 16 6 | | 0 | 301015 543 40 | , | | 6 | |
| 10 | | 164 | , | 0 | 30,100 15 1340 | " | * | 2 | , |
| 11 | | 6166 | | 0 | 300800 /341 | 003 | cun | 0 " | - |
| Mid. | - | M. P. 6. | , | 0 | 30 050 34339 | , | " | 0 1 | - |
| | | | | 1 | | | | | |

under the command of Commander Lebruary 13th, 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Commences/and Centis & at May light airs from W. by to. bless haves. Gueras WS 16 Trouv H. ho. 8. a. M. Clear cool and Steward Hay! balle weeks second hour when H Med Received get the bread in Pay Dept. Clear hours Levand & the Mahin, Obea, JE Sectois 15 a W & J Geructy Sas From 8. a. A to Meridian Partinely cloudy Light ain from Tout. af 9.30 inspected at quarters to found & Linds 15.a, absent without least ofercised Infantry and articlery Companies. Extraposed Powder Division of Lifter Toles unagazing and sheef room flood cocks to sea value of forecalle pump in paratroom. Found are in good condition. Received at himmenty fort must heat fement, Bugayed in polishing broad side guve pawhing outside white streak a scraping prof. Tent a revoul of tru yeur ashore for the delivery on board of I huiste, 15a. J. Julyin Trow Veridian to 4 . M Generally clear, hose Pleasung fruits bruge from Forth 2/9901. Estergised Maribes at rawing. Received the following stores from Mare Island Bury Marking Courtructing Light 200 Us Black Paint for Us Cohits head, 300 Us Cohits 3ms, 4 lbs Chray July in Oil 1th Chroms Yellow in Oil, 1th altrans Bluy in Oil, 60 the French Yellows in Oil, 1th Raw Villey lew Oig 3 lot Ouruf limber in Ois, 1 lh Raca lunder in Ois 12 lbs Veneting Red in Ois, 21/4 Veneralles Bo lbs French Yellow Dref 15 lbs Black diad, 25 lbs Red Lead 50 lbs Sheeles, 10lbs Sugar dead Dryss, 20 lbs whiting 100 lbs Victy, 20 galls alerhol, 5 galls Jupan Dryst, 35 galls driesed Clif Raw, 25 galls Tenpenting, 2 galls Copy Varuet, 5 galls Daman Variet 50 lbs Calum, I on Sheets Sandpaper, 4 gm Brass Soners, 414 Proces Voir, 2 lbs Copper Win 3ibs Charle 21 Brak Hooks, 20 Caro, & Riving Rowlocks, Bets Capper Jacks Sels Finishing Mails. In /bavigation Dept: my each # 4, 5, 4, 8 Cusions on huing fack Wmy Each # 3 flavor week Thouse their cases of alcohol in Jassayi hi brad rooms. Received in Equippedept 1/4 cm room. lelear haves Gusyn With how If ho. S. Ot Grufined Maker, oleg, J. F. Gerretty, 21/5, Wy C. Westris, 15 a as per most extrusty Trow & . T. Misunger beleas haves Released & Friend, dair E. Gallowney Examined and found to be correct.

LOG of the United States Steamer Steamer Steamer Rate,

| | | | Reading of Patent | COURSES STEERED | WIND. | | | 5. | BAROMETER | | - | | | State of the Weather, | Forms of Clouds, by | of Clear 1 10ths. | f the Sea. |
|-------|--------|-------|-------------------|-----------------|-----------------------------------|--------|-------|-------|-------------------|-----|----------------|-------------------|----------------------|--------------------------|------------------------|--------------------------------|----------------|
| Hour. | Knots. | Tenth | Log. | Thips head | Direction by Standard Compass. | Force. | Heel. | Leewa | Height in inches. | d. | Air, D Balb | Air, Wet Balb. | Water at Surface. | by symbols. | symbols. | Prop. of Clea Sky, in 10ths | State of the S |
| A. M. | | | | 16.16.8. | balu | 0 | | | 30.000 | 4 | 12: | 39 | | 1.0 | unid | 0 | 1 |
| 2 | | | | 16. 16 W | " | 0 | | | 30 oal 5 1 | 44 | 101 | 40 | | , | , | 0 | 1 |
| 3 | | | | 16. by 6. | 1 | 0 | | | 30.06.5= | 24 | 100 | 38 | | " | ,, | 0 | , |
| 4 | | | | M. W. by. W. | 1 | 0 | | | 30.0553 | 2 4 | 113 | 38 | | " | " | 0 | " |
| 5 | | | | 1"1 | , | 0 | | | 30 05 53 | | | - | | very. | " | 0 | 1 |
| 6 | | | | ggw | , | 0 | | | 30 00 5= | 24 | 1/3 | 39 | | | " | 0 | , |
| 7 | | | | No 8. Jul. 6. | 4 | 0 | | | 30 of 5 | 10 | 1 13 | 39 | | " | 7 | 0 | 11 |
| 8 | | | | 9. W. | 10".0 | 0 | | | 30 030 | 21 | 42 | 40 | | " | Cis cum | 0 | " |
| 9 | | | | 96 | O. G. by 6. | 1 | | | 30 040 | 2 , | 11 | 39 | | boy. | , | 1 | 1 |
| 10 | | | | 1.10 | Cally | 0 | | | 30 .035 = | 24 | 12 | 40 | | , | , | 1 | ,,, |
| 11 | | | | 9,96 | South | 1 | | | 30 02 05 | 24 | 15 | 42 | | , | | st | , ,, |
| Noon. | | | | 9 by W | " | 3 | | | 30 01 52 | 24 | fold | 11 | | , | cis | 4 | 1 |
| | | | | | | | | | | | | | | - | | | |

| Course and distance made good since preceding noon by observations, | | knots. | tenths. | |
|---|----------------|--------|----------|--|
| (Latitude by D. R, | | 0 | , ,, | |
| Longitude by D. R. | | 0 | , ,, | |
| Position at Noon: { Latitude by observations of ⊙ | | 0 | , ,, | |
| Longitude by chronometer from Forenoon Obs | ervations of ⊙ | • | , ,, | |
| (Latitude by | | 0 | , ,, | |
| Position at 8 a. m. Longitude by | | • | , ,, | |
| (Latitude by | | 0 | , ,, | |
| Position at 8 P. M. Longitude by | | • | , ,, | |
| Current during the time, knots tenths per hour, setti | ing to the | | | |
| Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's | s head | 0 | , " | |
| Variation of the Compass by Amplitude ⊙ observed at Sunset, | u | 0 | , ,, | |
| Variation of the Compass by Azimuth ⊙ observed at | " | 0 | , ,, | |
| Variation of the Compass by Azimuth ⊙ observed at | " | °D. | , ,, | |
| Water expended during the preceding 24 hours, | | 33 | O gallon | |
| Water during the preceding 24 hours, | | / | " | |
| Water remaining on hand fit for use at Noon, | | 140 | 0 " | |
| Coal consumed during the preceding 24 hours, | | tons | 1590 lbs | |
| Coal remaining on hand at Noon, | | 11 " | 2105 " | |
| | | | | |

| P. M. | W. by to No | cel. 2 | 29.99.50 45 41 | bez. | is curs | 39 |
|-------|---------------|---------|----------------|------|---------|------|
| 2 | loish | , 2 | 2994524421 | " | " | 41 |
| 3 4 | No W. bef. W. | 1 23 | 2996524641 | " | | 5 1 |
| 5 | 2/ | 16 W. 3 | 2996024442 | 1.5 | | al i |
| 6 7 | No by W. | " 2 | 29940/1641 | " | 1 | 9, |
| 8 | M. W. bef W. | " / | 3199651441 | | ets ' | |
| 9 10 | Mo Mo W. | " 2 | 3002504036 | ped. | cum | 11 |
| 11 | " | " 2 | 3002503036 | | " | 9 |
| Mid. | , | " 23 | 3002/99936 | | nun etr | 9 |

under the command of Commander J. F. Sewell, U. S. Navy, Just ay February 145, 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Communes and lentis of a Overcash with winder clouds bold balew bleat hours. From It to. 8. at hay balen Tening about howy Cleaned harose at end of water Received wolf the each of fush but " agetany "492 lbs fresh bread for creed. Released Holans, Oleg, J. Friety, Pars, "4 f. & Bristins 1.5 a as per order. Jest yesterly Frow S. a M. to Meridian Generally cloudy Rays Galew Light airs to great truck from 964 To Touch. all 9. 30 inspected crew, at quarters then exercises artillery, infantry company and marines. Drieled himes survants at small army Titling weed rigging for Sailing launch. Workywen from shore in Engr's Dept. Gross in have starchain ou hap. & F. Find the, 15. a, absent eachout leave. row Meridian to I C.M. Federally clear bright by coal blouds cis-cum & strat . Light to groups bruge from M. W. Celeans hainse. Painted whaly Goal outside. Tenating Doob and painting lower white stripe our sharboard site Timished fitting rigging for Sailing launal. Ther workenew engaged in Engrs Dol. Cear Laws. Gusign WIN Trous At to. 8. af H. 30 H I de Luistris Doucker flering the flag of dies admins Thuits came in Sent afficers he make usual visit of courtey which coal returned by Russian Officers. Russian gunbout carry in anchored at foelses. Hoisted from Dead lights on her cutracel Confined & F. Gerrity, Tay V Waln ala, as per order, leaufined & Distois, 15 a in Docolle issus to acrait action of the lound officer for getting Orunk while away in first cetter clear havor.

round of the Redelight cum of clout Fright stailight.

Osea, hi Keets aucher, water lelear Lacoss.

Examined and found to be correct.

Let Galloufay & Navigator.

(Jusigs W.J./)

LOG of the United States States States State, age of Skale,

| Hour. | Knots. | Tenths. | Reading of Patent Log. | COULSES STEERED by Sandard Compass. | WIND. Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. Ther. | | | State of the Weather, by symbols. | Forms of Clouds, by symbols. | Prop. of Clear Sky, in 10ths. | State of the Sea. |
|-------|--------|---------|---------------------------------|-------------------------------------|---------------------------------------|--------|-------|---------|-------------------------|-----|----|---|------------------------------------|----------------------------------|-------------------|
| A. M. | | | | W. H. W. | W. 76. W | 2 | | | 30.03 48 | 39 | 36 | 4. | enu ets | 8 | 9 |
| 2 | | | | , , | , | 2 | | | 30 of 48 | 100 | | 1 | " | 1 | |
| 3 | | | | | , | 2 | | | 30.06 48 | | | " | 1 | 8 | 1 |
| 4 | | | | 1 | , | 1 | | | 30 out of my | | | 1.1 | | 8 | 1 |
| 5 | | | | 16 W. W. W. | " | 1 | | | 301148 | 1 / | | T.C. | " | 6 | 1 |
| .7 | | | | west | " | 1 | | | 3013 44 | | | 1 | cin cum | 6 | " |
| 8 | | | | 7 7 7 | , , | 1 | | | 3014 46 | 1./ | | * | 1 | 6 | 1 |
| 9 | | | | 7/ | No W. by w. | 1 | | | 30, 4 4 | 1 . | | Log | " | 5 | 4. |
| 10 | | | | Mayby W | " | 1 | | | 30,844 | | | 15 | cis ann | of, | 4 |
| Noon. | | | | Why 16. | " | 1 | | | 30 18 A5. | | | " | , | 6 | " |

| Course and distance | made good since preceding noon by observations, | knots. | tenths. |
|----------------------|--|---------------|----------|
| | (Latitude by D. R. | 0 , | " |
| | Longitude by D. R. | 0 , | ,, |
| Position at Noon: | Latitude by observations of ⊙ | ٠, | " |
| | Longitude by chronometer from Forenoon Observations of ⊙ | 0 , | " |
| | (Latitude by | 0 , | " |
| Position at 8 a. m. | Longitude by | 0 , | " |
| Position at 8 P. M. | (Latitude by | 0 , | " |
| Position at 8 P. M. | (Longitude by | 0 , | " |
| Current during the | time, knots tenths per hour, setting to the | | |
| Variation of the Co | mpass by Amplitude o observed at Sunrise, ship's head | 0 , | " |
| Variation of the Con | mpass by Amplitude ⊙ observed at Sunset, " | 0 , | " |
| Variation of the Co | mpass by Azimuth © observed at " | 0 , | " |
| Variation of the Co | mpass by Azimuth 🔾 observed at " 💃 | 00' | " |
| Water expended dur | ring the preceding 24 hours, | 23 | gallons. |
| Water | during the preceding 24 hours, | / | " |
| Water remaining on | hand fit for use at Noon, | 120 | 4 " |
| Coal consumed during | ng the preceding 24 hours, | 1 1 o tons 13 | 05 lbs. |
| Coal remaining on h | nand at Noon, | 11 " 6 | 00 " |
| | 1 | | |

| . М. | | Solw | | | |
|------|-------------|----------|---|----------------|---------------|
| 1 | C.ul | | | 3013454238 | tog as cul 49 |
| 2 | W. Gw., | W. by Mo | 2 | 30, 4 44 4541 | " cum oto st |
| 3 | W. by No. 1 | , | 2 | 3014884641 | cis court |
| 4 | W. by 9 | | 2 | 3014504642 | |
| 5 | 16 8. by 8 | 16. C. | 2 | 301548 4844 | , , of |
| 6 | | " | 1 | 3015 48 48 41 | 1 4 3 |
| 7 | 16.16.6 | 2/ " | 1 | 3016 29 18 44 | , 6 |
| 8 - | Morel | Hard | 1 | 3018 504841 | , cum 3 |
| 9 | M.W. byl. W | " | | 3020 52 46 48 | by une 10 |
| 0 | W/6W | " | 1 | 3023 52 46 43 | |
| 1 | | " | / | 3023 5 = 46 43 | beg and |
| id. | No W but U. | " | 1 | 30,23 52 45 12 | 1 . 8 |

under the command of Sommander J. February 15t, 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Leur house. A cool Light buy decreasing to light airs from U. H. W. in Pay Well for issue "/1/2 ets each fresh but Worgehards & 94 lbs firetoned Constraints. O MISHoggathy Trow 8. a. M. ho Meridias from W. H. W. and M. W. by W. Ho hidal observation. Went to quarter for musters inspection at 930 after which Drieled Haval Origade by Companies & servants belonging to Porobit Divising Commanding Officer culled on board Russian Flagship' Duritie Douskoi'. Taraping prosp & frainting insite planting. Beforder of leaund Officer, placed JE Destois, 15a, in confinement in Double orm to award trial by General Court Markias. Those workwer engaged in Engineers dept. lelear Larges. Al Toughtque From Asis ian to 4 P. A Design Willy first hour decreasing & Shifting to light bruzy from I food Graping hook deck as print ing bulgwarks. Vice admiral Schnieds, Capt Thrifoloff Works Molas of the IX hourds. Teleas hairs. From Horse S. W. Ment Cis cum closed Hase lood Lightains to freeze from the Ment blear hours. J. a. Engr Confire fifthe staged of the season o Trour & The Midnight bay our land. Light air from Hout. Housign W. 9.16 Examined and found to be correct. Teo Galloway Navigator

LOG of the United States I trayees "Stelly", 36 Rate,

| | 1 | | | The same of the sa | | | | - | | |
|-------|--------|---------|----------------------|--|-----------------------------------|--------|-------|--------|--|---|
| | | 7 | Reading | 1 | WIND, | | | | BAROMETER. TEMPERATURE. State of Forms of | |
| Hour. | Knots. | Tenths. | of Patent Log. | COURSES STEERED by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | eeway. | Height in inches. Ther. att'd. | |
| H | X | Te | | hips clad | | A | H | 7 | 4 4 5 2 | |
| A. M. | | | | 1 | 1 | | | | | 1 |
| 1 | | | | 16.61W. | Galen | 0 | | | 3023524642 best aunoto 5 9 | |
| 2 | | | | 16. W.by. 76 | | 0 | | | 30.23 52 46 42 " " 1 1 | |
| 3 | | | | 16 by W | , | 0 | | | 30,220 24641 , , 1 | |
| 4 | | | | W. 76 W | , | 0 | | | 30 200 2 Ho do , 9 5 4 | |
| 5 | | | | , , | , | 0 | | | 3020524441 | |
| 6 | | | | 16 16 W. | 1"0 | 0 | | | 30,0002 43 41 | |
| 7 | | | | 16 8 by 16 | 16.6' | 1 | | | 3021544341 | 7 |
| 8 | | | | 168 | , | 1 | | | 3021524941 " cit A | , |
| 9 | | | | 0 11 0 | Q // | 1 | | | 302301 12 40 " sum int 3" | , |
| 10 | | | | 6768 | Gash | 1 | | | 30 205 H2 HO ACA 0 | |
| 11 | | | | 6 61 16 | ") | 1 | | | 30,7/5/1/2/0 0 11 | |
| Noon. | | 1 | | East | " | 1 | | | 30,4504139 | |
| | | | |) | | | | | | |

| Course and distance | made good since preceding noon by observations, | knots. | | tenths. | | |
|---------------------|--|----------|-----|----------|--|--|
| | (Latitude by D. R. | 0 | , | " | | |
| | Longitude by D. R. | 0 | , | " | | |
| Position at Noon: | Latitude by observations of ⊙ | 0 | , | " | | |
| | Longitude by chronometer from Forenoon Observations of ⊙ | 0 | , | " | | |
| | (Latitude by | 0 | , | " | | |
| Position at 8 a. m. | Longitude by | 0 | , | " | | |
| | (Latitude by | 0 | , | " | | |
| Position at 8 P. M. | Longitude by | • | , | " | | |
| Current during the | time, knots tenths per hour, setting to the | | | | | |
| Variation of the Co | mpass by Amplitude o observed at Sunrise, ship's head | 0 | , | " | | |
| Variation of the Co | mpass by Amplitude ⊙ observed at Sunset, " | 0 | , | " | | |
| Variation of the Co | mpass by Azimuth ⊙ observed at " | 0 | , | " | | |
| Variation of the Co | mpass by Azimuth ⊙ observed at " | °n | , | " | | |
| Water expended du | ring the preceding 24 hours, | 3. | 50 | gallons. | | |
| Water | during the preceding 24 hours, | | | " | | |
| Water remaining on | hand fit for use at Noon, | 110 | | | | |
| Coal consumed duri | ng the preceding 24 hours, | ton | 170 | 60 lbs. | | |
| Coal remaining on l | and at Noon, | 10 " | 10 | 80 " | | |
| | | | | | | |

| P. M. | 6,86 | 898 | / | 30,12504340 | 1 cg com " | int of |
|-------|-----------|--------|---|-----------------|------------|--------|
| 2 | 846 | 0" | 1 | 301050 43 40 | | 0 " |
| 3 | 8. 96. | East | / | 30.08.50 1340 | icsg , | 0 , |
| 4 | 8166 | " | , | 300/504442 | " , " | 0 , |
| 5 | | 1 | / | 30.00/50 4.40/2 | ocasf " | |
| 7 | Harel | Calul' | 0 | 3006504341 | rest " | 0 " |
| 8 | , | | 0 | 30.05 49 4240 | ocosp " | 0, |
| 9 | Gash | , | 0 | 30,00 494140 | , , | 0, |
| 10 | 8.16.8 | , | 0 | 3004 494 139 | best. | 0 " |
| 11 | W.by. 16 | " | 0 | 3003 18+039 | | 0 , |
| Mid. | How by W. | , | 0 | 3002181039 | , | 0 " |

under the command of

Commander J. February 16th, U.S. Navy, Thursday February 16th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

| Communes and Zutietta M | |
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| Commences and Turkis Hay Par | tially cloudy bless have |
| Trouv H. hr. 8. a. M. | Justo bow balu first frank Bight Show workened Received for issues to the how workened hurnes have being the Sugar Sight. |
| airs from 16 8. afterwards. Liberty | party returned. Received Insines to |
| The of the dead blear hairs! | Those workened hurned ho in Engs Nich. |
| bloudy and cool hamfour | land. Light airs from East. Painting |
| 2 | By orper of locula Offices & Townsie |
| Received an official visit from loud | y Officer of the S. R. M. J. Bobo, Exercises, |
| evit bay hammock & ugustary frapers | to U. 9. Haras Doepital Yoseopania. By |
| influences of liques. | Tails, euros sentry charge for being under |
| From Meritian to of PM | Jusign Wills |
| Sured last his hours blegs haves Englowed to | of Light gir from Carl VIGG Light |
| Commanding Offices frait visit to | Custing Juntoal Books |
| Thouse of the S. S. I will drive | Juig rain W light suns Light airs |
| from East first huff deen last hay | . By order of County Officer released |
| Jour Coaus, Jailes, from lentrep charge. | The Soo ways of |
| balui level durion | blear house party |
| | Leut Wyn |
| | |
| | |

Examined and found to be correct.

En Gallow Jel Navigator.

in the harbor of BAROMETER. TEMPERATURE. A. M. Gresh 3002484140 16 W. 30 00 48 1140 W.M.W. 29 994 4 4030 16. W. by 16. 29 90423938 3000414038 16. 6 by 6. 3000 4 34 038 30.82444139 30,03434140 30,00 4 43931 9 W. by 9. 3004 eft 4038 10 300ff f 4 f1 39 16. W. by W Cuustr 8 11 300+14+3+0 West Noon. tenths. Course and distance made good since preceding noon by observations, Latitude by D. R. Longitude by D. R. Position at Noon: Latitude by observations of ⊙ Longitude by chronometer from Forenoon Observations of \odot Latitude by Position at 8 a. m. Longitude by (Latitude by Position at 8 P. M. Longitude by Current during the time, tenths per hour, setting to the Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head Variation of the Compass by Amplitude ⊙ observed at Sunset, Variation of the Compass by Azimuth ⊙ observed at Variation of the Compass by Azimuth ⊙ observed at 350 gallons. Water expended during the preceding 24 hours, during the preceding 24 hours, Water remaining on hand fit for use at Noon, Coal consumed during the preceding 24 hours, Coal remaining on hand at Noon, " 1050" P. M. W. N. W. West 30,05 48 Held 30 of HV States 30 06 Hay stated 2 Muly to balu 30.05 H8 4542 16. 16 W. M.W. 30.08 - 9 4000 3010 454338 loist 16 W. by W. 30 13 44 4238 West 16 W. 30 Hotel 138 3012 424 038 W. by 16. 3015 424 034 3016413936 11 3015413934 Mid.

under the command of Sommany Des J. J. Sewers V. S. Navy, Friday February 144, 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Douneuces and linked & G. A. piet from M. Clear harve! Furning first hour Hazy, bales High Troud How & an All shipting to & G. last half of watch at gaying it Thous & a find Heridian bool. Light buy from was " w. gu W. gu de diang ellow ier payore bleaux hawrelat 10:30. al 9: Hours pected at quarters. Found & Find the 15. a, absent provinces leave Electrices 1 et and 211 Divisions at Great glas Toroles Divisions at Thatiens, 3" Division at Pristors Heisters fix his dry Working from Shore at work in Enquire Department.

From Merisian his H PM Jens Figure from week and baluf Jalear, honory Thought ho. S. I Digit to gruets bruge from the XW. ast Listeiling. Steer bright to Missenger Light air from week Clear have. Gusign W. 916 Examined and found to be correct. Tes Laclory Navigato

LOGICA the United States Steamers Steamers Steel, 3d Rate,

| | | | Reading | 1 | WIND. | | | | BAROMETER. | TEM | PERA | TURE. | State of | Forms of | Hear the. | e Sea. |
|-------|--------|---------|----------------|----------------------|-----------------------------------|--------|-------|---------|------------------------|-------------------|-------------------|----------------------|-----------------------------|---------------------|--------------------------------|-----------------|
| Hour. | Knots. | Tenths. | of Patent Log. | by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. Ther | Air, Dry Bulb. | Air, Wet Balb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Cles Sky, in 10ths | State of the Se |
| A. M. | | | | W.64.76 | roush | 1 | | | 30.14 | 3 3 9 | 34 | , | to | cis cum | 8 | d |
| 2 | | | | w. gw. | 1, | 1 | | | 3019 43 | 3 3 8 | 36 | | do | umg | 10 | , |
| 3 | | - | | W. gy M. | 10, aun | 0 | | | 30.20 43 | 3 my | 135 | | , | , | 10 | , |
| 4 | | | | 1900 | west | / | | | 3020 43 | | | | ? (| " | 10 | 1 |
| 5 | | | | 901 b/W | 7 | / | | | 3021 43 | | | | be | ois eura | 6, | , |
| 6 | | | | aust | 11 | / | | | 302243 | | | | | , | 4 | " |
| 7 | | | | W. 9 W. | Malu | 0 | | | 30 24 4 2 | | - | | , | , | 0 | 9 |
| 8 | 1. | - | | W. 4/16 | " | 0 | | | 30264 | | | | ," | , | 6 | " |
| 9 | | | | 6. 16.6 | 1."118 | 0 | | | 30.2847 | | | | pos | ou . | 6 | . 4 |
| 10 | | | | March | 1. Suf. 0. | 2 | | | 302844 | | | 10000 | , | cir cum | 0 | ,, |
| Noon. | | | | No by C. | 166 | 2 2 | | | 30 31 44 | - 1 | | | . , | ots | 5 | 1 |
| Noon. | | | | 24 / 1 | 16.6 | 2 | | | | - 1 | | | , | str | 5 | - |

| Course and distance | made good since preceding noon by observations, | knots. | tenths. | |
|---------------------|--|----------------|-------------|--|
| | (Latitude by D. R. | 0 / | ,, | |
| | Longitude by D. R. | 0 , | " | |
| Position at Noon: | Latitude by observations of ⊙ | . , | " | |
| | Longitude by chronometer from Forenoon Observations of ⊙ | 0 11 | " | |
| | (Latitude by | 9 , | " | |
| Position at 8 a. m. | Longitude by | 0 , | ,, | |
| | (Latitude by | 0 , | " | |
| Position at 8 P. M. | Longitude by | 0 , | " | |
| Current during the | time, knots tenths per hour, setting to the | | | |
| Variation of the Co | mpass by Amplitude 🔾 observed at Sunrise, ship's head | 0 / | . " | |
| Variation of the Co | mpass by Amplitude © observed at Sunset, " | 0 / | " | |
| Variation of the Co | mpass by Azimuth ⊙ observed at " | 0 / | " | |
| Variation of the Co | mpass by Azimuth ⊙ observed at | • / | | |
| Water expended du | ring the preceding 24 hours, | 30 | 30 gallons. | |
| Water Du | ettiles during the preceding 24 hours, | 130 | 50 gallons. | |
| Water remaining or | hand fit for use at Noon, | 180 | 2a " | |
| Coal consumed duri | ng the preceding 24 hours, | 1 8 0 1 tons 1 | 730 lbs. | |
| Coal remaining on l | nand at Noon, | 9 "1 | 560 " | |
| | | / | | |

| P. M. | Kw. | ball | 0 | 303156 4239 | And in every | 1 | 9 |
|-------|-----------|---------|---|-------------------|--------------|----|------|
| 2 | g by w | South | | 3028 55 40 39 | beef in ener | 4 | 1 |
| 3 | 99.01. | 1"1. | 1 | 3028 5 3 41 38 | " "init | | |
| 4 | Siby w | d'dw | 1 | 3028 53 12 39 | I'ch cin um | 2 | , 11 |
| 5 | west | Mored | / | 302653 4239 | stop at | 3 | 11 |
| 7 | 16 8 4 16 | € 16 6. | 1 | 30 20 5 1 24.3 40 | , , | 3 | " |
| 8 | 6 46 | , | 1 | 30, 15 3 12 39 | beg en eun | 3 | 11 |
| 9 | 16.66 | , | 2 | 3030624138 | bog en eun | 15 | 1 |
| 11 | | | 1 | 3030524138 | , , | 2 | " |
| Mid. | , | b'auw | 0 | 30,28 5-2 40 34 | say enny | 0 | " |

Grunnander J. Surveto. S. Navy, Gaturbay February 18th, 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Douveres I lutis H a Mandlight air from loved to training. Con have Husigh 4/9/6 Troud of for grievally clear bafus Whigh air from tour clear clears hoursel Received glash bried for creed. Les. Thereby Fiend Willy True 8. at 8 15 aired bigang. at 9:30 unitend creed at quarters and igrefrected hays & F. Findles 15 a was absent without leave Working from shore in Engr's Dept. lelear haves. Distilling. Meridian to of PM July 6916 Parely clear cold. Hazy ones land blout is cun Vining. Maleu first hour, light and from South to 99 W afterwards offer everteuch engaged in Engis Del. Dietilling. Tolk in have get sud row It ho. 8. Ousign With airs from 9 9 6, Morth & 6 16 A H. Juisty Is a was brought fires of the louising of fires of the louising of fires of the louising of fires was confined in Double irous to await further section. lelear harves Dietilling. Jungally cloudy. Overcant last hour Hazel Conto cin-cing and energy Light air his bruge frence & 16 8 till last hour when called Distribution Nettelling 1 omedowy Jusegn W.J.K. H.J. Lindke Examined and found to be correct. ED Gallow My Navigator.

BAROMETER. TEMPERATURE. A. M. 3028503936 beg ciscum 2 3026514034 2 3022514034 3 816 2021504038 3024514038 5 3022514034 oca wind 6 3022504038 7 30 22 51 4238 8 30,2253, 1240 30 205 6 4239 30,956,1239 11 3016564440 Noon. tenths. Course and distance made good since preceding noon by observations, Latitude by D. R. Longitude by D. R. Position at Noon: Latitude by observations of ⊙ Longitude by chronometer from Forenoon Observations of ⊙ (Latitude by Position at 8 a. m. Longitude by (Latitude by Position at 8 P. M. Longitude by Current during the time, knots tenths per hour, setting to the Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head Variation of the Compass by Amplitude ⊙ observed at Sunset, Variation of the Compass by Azimuth ⊙ observed at Variation of the Compass by Azimuth ⊙ observed at 350 gallons. Water expended during the preceding 24 hours, Mtule during the preceding 24 hours, Water remaining on hand fit for use at Noon, Coal consumed during the preceding 24 hours, Coal remaining on hand at Noon, P. M. 30.13.5 y ho x2 Cash & by E. 30.115944 41 wind 0 " bjalus o 30095921443 3008 594142 oco & much 0 " E W E W E. 300659HH H2 3006534543 3000034442 2 30 of 56 dd she 30045641 13 2 3002604644 30 00 6 3 f 6 Hit House 30.0062 fafts Mid.

Junipander J. A January, Survey, 1918, 1888. under the command of RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Dounneiges and Cutis Ha. light airs from the blear hawse Distilling. July of W Russian unen of war left the harber of 1.30 Secured for issue my Lay Dept 15 ths each fresh theef wagetables & 92 lbs fresh bread. Clear harber Distriling. July Congre row 8. a. Mrs Meritian puradif vairant with weigher cloud. Hogy we coal Calle 1 Mout Light ain from Gof to afterwards. I w. Phillips Gais reported his time of elificement as expired at 9:30 went to quarters for yeurster and wis pectins of ship & cred, Lettering les hours how Meridian to 4 Ousign Wolf Correach clowy by hazef sentis last hour where Drighting rain get in " hast turned he fog. Fight airs from pin from 16. 8 lelear Laure at 3: her Diving Services. Thou It to I July Co Coercast cevet unitions clouds. Drick wind light light fall of sured 30 Kour bold. biery from 16 & Selean hause It tour forp Clear hairse, with driggling rain Light ain 16 Derseyn WJ 16 Durigs WIA Examined and found to be correct. alloway

LOG of the United States Steamer Skell, 3 Rate,

| | | | Reading | 0 | WIND. | | | | BAROME | ETER. | ТЕМІ | PERAT | | State of | . Forms of | f Clear 10ths. | e Sea. |
|-------|--------|---------|-----------------|-----------------------------------|-----------------------------------|--------|-------|---------|-------------------|--------------|-------------------|-------------------|----------------------|-----------------------------|---------------------|-------------------|-----------------|
| Hour. | Knots. | Tenths. | of Patent (Log. | CORRSES STEERED Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. att'd. | Air, Dry Bulb. | Air, Wet Bulb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of C | State of the Se |
| A. M. | | | | 16.16. E. | b, aleu | 0 | | | 30.00 | 59 | 48 | 45 | | ocdew. | wint | 0 | 9 |
| 2 | | | | No bef W | H. Lefel. | 1 | | | 29.98 | 59 | 44 | 44 | | ocow. | , | 0 | , |
| 3 | | | | 16 W. | , | 1 | | | 30 00 | | | | | , | since | 0 | ,, |
| 4 | | | | 16. W. by 16. | , | 1 | | | 80 00 | 60 | 49 | 45 | | , | , | 0 | , |
| 5 | | | | Hores | 76, 16 W. | 1-2 | | | 3000 | 60 | 44 | 41 | | our. | The second second | 0 | , |
| 6 | | | | | , | 1-2 | | | 3001 | 60 | 1/4 | 43 | | 1 | " | 0 | 1 |
| 7 | | | | W 6/16 | West | 1-2 | | | 30 05 | 58 | stay | 43 | | occus | | 0 | , |
| 8 | | | | 76. W by 16. | , " | 1-2 | | | 30 06 | 55 | 16 | 41 | | benu | , , | 1 | , |
| 9 | | | | 16 16 W. | Calen | 0 | | | 20 13 | 56 | efet | 40 | | bes. | cis euro | 1 | , |
| 10 | | | | 16. 64. W. | Horth | 1 | | | 30 ,1 | | 12 | | | besg. | 1 | 1 | , |
| 11 | | | | 16 6 by 16 | , , | 1 | | | 30 10 | | 100 | | | , | 7 | 3 | , |
| Noon. | | | | 16.16.6 | " | 1 | | | 30 13 | 1 | | | | bog | ,, | 3 | " |
| | | | | | | | | | | | | | | | | | |

| Course and distance | made good since preceding noon by observations, | | knots. | t | enths. |
|---------------------|--|-----|--------|-------|--|
| | (Latitude by D. R. | | 0 | , | " |
| | Longitude by D. R. | | 0 | , | " |
| Position at Noon: | Latitude by observations of ⊙ | | 0 | , | " |
| | Longitude by chronometer from Forenoon Observations of | f o | 0 | , | " |
| | (Latitude by | | 0 | , | " |
| Position at 8 a. m. | Longitude by | | • | , | " |
| | (Latitude by | | 0 | , | " |
| Position at 8 P. M. | Longitude by | | 0 | , | " |
| Current during the | time, knots tenths per hour, setting to the | | | | |
| Variation of the Co | ompass by Amplitude 💿 observed at Sunrise, ship's head | | 0 | , | " |
| Variation of the Co | ompass by Amplitude O observed at Sunset, " | | 0 | , | " |
| Variation of the Co | ompass by Azimuth ⊙ observed at | | 0 | , | " |
| Variation of the Co | ompass by Azimuth o observed at | | | , , _ | " |
| Water expended du | aring the preceding 24 hours, | | 3 | 50 | Ogallons. |
| Water | during the preceding 24 hours, | | | / | u |
| Water remaining o | n hand fit for use at Noon, | | 2 | 40 | Ogallons. " " " " " " " " " " " " " " " " " " |
| Coal consumed dur | ing the preceding 24 hours, | | / ton | 8 // | 15 lbs. |
| Coal remaining on | hand at Noon, | | 5 " | 90 | 5 " |
| | | | | / | |

| P. M. | Y | 7/ 1/ | | | | | | 1 |
|-------|------------|----------|-----|-------------------|------|---------|----|---|
| 1 | M. bef. w. | 16.16.W. | 2 | 30,14 62 42 38 | 15 | cigouna | 5 | 9 |
| 2 | v " Q | , | 2-8 | 30,15604238 | " | , | 4 | 1 |
| 3 | 16 by 6. | , | 2-3 | 30, \$564239 | , | " | 5 | " |
| 4 | 71 | 21" | 1-3 | 30,20 5 64238 | " | | 3 | 4 |
| 5 | Hours | N. w. | 2 | 30.20 5 6 4 1 3 4 | teg. | , | 6 | 4 |
| 6 | Mores | 4 | / | 3022 554238 | , | " | 6 | |
| 7 | M. Cofee. | 1 ", | 2 | 30.26 53 4 13 4 | | " | 4 | 7 |
| 8. | wish | b, alu | 0 | 3026534134 | | , | 1/ | " |
| 9 | | , | 0 | 302834231 | , | | 4 | " |
| 10 | | " | 0 | 3026614236 | 4 | | 8 | " |
| 11 | • | | 0 | 30.29518934 | | * | 1 | |
| Mid. | , | | 0 | 3029513435 | A.g. | uny | 1 | 1 |

under the command of Summander J. J. Survey, W. S. Navy, Houday Tebruary 20, 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Commences, and Centre 4. a. and light airs from 16.16 W. beleas house. French Colyman Overeast with cum whenend clouds. Misty Juning father part. Light the greet breize feogre to the Who twest look. Peccion for issues to crew 93 Tof out Sailing launch. Trous & W. The Meridian Light sured face recoud & third him Light airs from Both it 9:15 wentered at me peetes at quarters. Exercised 1st and 2. Des at Stations; Jestes magazing and sheel room from cocks. Exemined But guy catter preiners & bacteries " found theus in good condition. Deforder of andy Officer places to & Lindy, 15.4, in Double irous for eight days leleas harger localus C. J. S, reported teren of enlictment asex Dired Received in Eugis Del Steamy cutters boiles in cutters. (The Sommes A Well Mendean to It. Parkingly cloudy level. Occasional sight seven balle & light to Dept. Painting different barts of chip einside. blean " hay soulded. Light bruge from 16 W. Clean Lawy. reisign 6.9.16 bleat. level. Capew. Clear hairse. Private Inper de 816; came on Arand Drunk " wo was placed in double irous to awail action of Jos Degunn Examined and found to be correct. to Sallow Leuf & Navigator

LOG of the United States Heavy "Skeef", 3 Rate,

| | | | | | WIND. | | | | BAROMETER, TEMPERATURE. | | | 5. | 2 |
|-------|--------|---------|------------------------|--------------------------------------|--------------------------------|--------|-------|---------|--|---|------------------------------------|----------------------------------|------------------|
| Hour. | Knots. | Tenths. | Reading of Patent Log. | courses steered to standard compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. att, Ther. Water at W | State of the Weather, by symbols. | Forms of Clouds, by symbols. | Prop. of Clear Sky, in 10ths. | State of the Sea |
| A. M. | | | | 16.W. by 16. | No. W. | 1 | | | 3024493634 | beg. | cum th | 4 | 9 |
| 2 | | | | W.16.W. | " | 1 | | | 3023423633 | 0 | " | 6 | 1 |
| 3 | | | | 7 " | 1 | / | | | 30,23 4 03 4 3 2 | " | " | 6 | 4 |
| 4 | | | | M. w. by M. | " | 1 | | | 3023403432 | by. | ume | 10 | , |
| 5 | | | | 16. W. | 1 " | 1 | | | 3024403533 | tey. | cis enus | 4 | 4 |
| 6 | | | | , , | 6, alm | 0 | | | 3025423435 | " | otr | 5 | , |
| 7 | | | | 16 W. by 16 | " | 0 | | | 30,25413936 | " | , | 4 | 1 |
| 8 | | | | W. M. W. | \"\"\ | 0 | | | 30 28 44 40 38 | " | cis cury | 4 | 11 |
| 9 | | | | 16.16.6 | 16.8. | 1 | | | 30,29,494038 | before | , | 3 | 1 |
| 10 | | | | 6. by 16 | East | 1 | | | 302950 4040 | " | " | 1 | 1 |
| 11 | | | | 9 Edy 6 | 960 | 1 | | | 30 20 49 45 41 | boy. | " | at, | , |
| Noon. | | | | 96. | South | 1 | | | 3030494413 | , | , | 4 | 1 |
| | | | | | , | | 2 34 | | | | | | |

| Course and distance made good since preceding noon by observations, | knots. | tenths. |
|--|--------|-------------------|
| Latitude by D. R. | 0 , | " |
| Longitude by D. R. | · , | " |
| Position at Noon: { Latitude by observations of ⊙ | ٠, | " |
| Longitude by chronometer from Forenoon Observations of ⊙ | ۰ , | " |
| (Latitude by | 0 , | " |
| Position at 8 a. m. Longitude by | 0 , | " |
| (Latitude by | 0 , | " |
| Position at 8 P. M. Longitude by | 0 , | " |
| Current during the time, knots tenths per hour, setting to the | | |
| Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head | 0 / | " |
| Variation of the Compass by Amplitude ⊙ observed at Sunset, " | 0 , | " |
| Variation of the Compass by Azimuth ⊙ observed at " | 0 , | " |
| Variation of the Compass by Azimuth ⊙ observed at " | · n' | " |
| Water expended during the preceding 24 hours, | 90 | To gallons. |
| Water during the preceding 24 hours, | | u |
| Water remaining on hand fit for use at Noon, | 21 | or " |
| Coal consumed during the preceding 24 hours, | / tons | 540 lbs. |
| Coal remaining on hand at Noon, | 4 " | 540 lbs. 365 " |
| | | |

| P. M. | | | , |
|--------------|-----------|------------------|---|
| 1 9,6 | | 30.24 505 150 | bez ciscun 59 |
| 2 96 | 1 1 1 | 3035515150 | , , 6 , |
| 3 9. E by | | 30 25 52 15 150 | 8 " |
| 4 29 | 6. | 30 afort sho sho | " |
| 5 9661 | 9 1 1 | 30 24 5 3 42 43 | 1 1 1 1 |
| 6 9. 9. | E. Dalu o | 3022534443 | " " " " |
| 7 2 0" | 1 0 | 3021 552928 | , , 6, |
| 8 16 8 by | | 3021604948 | , 9" |
| 9 Mo. W. by. | 4 | 3021604846 | " " " |
| 10 16 W. | 1 | 3021604641 | , , 9, |
| 11 16.64.4 | | 30.23094440 | " " 9" |
| Mid. 16.6. | , 0 | 80.2259 stat eto | 9" |

Commander V. L. Seevel, U. S. Navy, Tuesday February 2/4, 1888. under the command of RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Concuerces and until Ha & from 16 W. Clear house From S. a. M. to Meridian Signs variable airs level blear hairs of grand our signs of the grand of generally cloudy thought our signs our signs of the grand our signs our signs of the grand our signs our si Surings the gath 9.30 wispected at quarter. Instructed 1ch 3/2! Dies is great guis 3 Die Trigetos Received on board weed, mais and quarter ouck awarings at hands for Souding wir. Cest pended her blue lights. Workenen from show at work in Engris Dept. Lossed fit to dry! July Wy From Maridian to of MA Light airs from Jours Byons of the yourdy Officer discharged at bhuny 200, y Ling Lee, 20 from the Un Haval Gervice they warring claims to transportation on Gousulas ail. Quarterly Board of Jurous condemned 2's lbs reach beef which was thrown overboard by Order of the County Officers. Workenen Jums shou at work is Engs Deph. lelear hawle. Eusign Wight. Troubt. tr. 8. P.M around horizon. leleas havose. Trow f. OM ho Midnight General Grant Colored Gusigs Ugh Examined and found to be correct. Los Galloway & Navigator.

LOG of the United States I transfer Ossel "Rate,

| | | | Reading | 1 | WIND. | | | | BAROMETER. | TEMI | PERAT | URE. | State of | Forms of | lear ths. | o Sea. |
|-------|--------|---------|----------------------|-----------------------------------|-----------------------------------|--------|-------|---------|-------------------------|-------------------|-------------------|----------------------|-----------------------------|---------------------|--------------------------------|-----------------|
| Hour. | Knots. | Tenths. | of Patent Log. | COURSES STEERED Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. Ther. | Air, Dry Bulb. | Air, Wet Bulb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Clea Sky, in 10ths | State of the Se |
| A. M. | | | | 7 | 1 | | | | | | | | , , | | - | 1 |
| 1 | | | | May al | Maleul | 0 | | | 302359 | 44 | 40 | | tog. | Cis cum | 9 | 9 |
| 2 | | | | Harel | " | 0 | | | 302461 | 44 | 39 | | , | 7 | 8 | , |
| 3 | | | | 16. by 6. | , | 0 | | | 30 34 60 | 44 | 39 | | - | | 8 | 4 |
| 4 | | | | 16. 16. 6. | | 0 | | | 30 22 60 | 41 | 39 | | , | | 8 | " |
| 5 | | | | E 4/16. | | 0 | | | 30,1454 | 44 | 40 | | " | , | 6, | |
| 6 | | | | 96 | 1.0 | 0 | | | 30 15 58 | | - | | " | , | el | , |
| 7 | | | | 996 | 900 | 1 | | | 30 15 5 9 | | | | , | " | 3 | 7 |
| 8 | | | | , | | 1 | | | 30 15 52 | | | | " | 4 | 2 | , |
| 9 | | | | 01. | 996 | 1 | | | 30 1562 | 40 | 43 | | , | 4 | 6 | " |
| 10 | | | | 1 6 m/ d | | 1 | | | 30,250 | | 0 | | 4 | " | 4 | 4 |
| 11 | | | | 98 | | 1 | | | 30,453 | 51 | 15 | | , | ity. | 6 | 4 |
| Noon. | | | | " | | 1 | | | 30,200 | 52 | 15 | | | " | nf | |

| Course and distance | made good since preceding noon by observation | ıs, | knots. | | tenths. | | |
|----------------------|---|------------------|--------|-------|--------------|---|--|
| NEWTO | (Latitude by D. R. | | | , | " | | |
| | Longitude by D. R. | | o | , | " | | |
| Position at Noon: | Latitude by observations of ⊙ | | | , | " | | |
| | | | | , | ,, | | |
| | Longitude by chronometer from Forenoon O | bservations of ⊙ | • | - | " | - | |
| Deities at 9 a | Latitude by | | 0 | , | " | | |
| Position at 8 a. m. | Longitude by | | • | , | " | | |
| | (Latitude by | | • | , | " | | |
| Position at 8 P. M. | Longitude by | | • | , | " | | |
| Current during the t | time, knots tenths per hour, se | etting to the | | | | | |
| | mpass by Amplitude o observed at Sunrise, shi | | • | , | " | | |
| | npass by Amplitude O observed at Sunset, | " | 0 | , | ,, | | |
| | npass by Azimuth ⊙ observed at | u | ۰ | , | " | | |
| | npass by Azimuth ⊙ observed at | " | | , | " | | |
| | ring the preceding 24 hours, | | 3 | 5 | gallons. | | |
| | | | | | | | |
| Water | during the preceding 24 hours, | | | ,/ | _ " | | |
| Water remaining on | hand fit for use at Noon, | | , | 90 | 0 " | | |
| Coal consumed durin | ng the preceding 24 hours, | | 1 to | ns 10 | 50 lbs. | | |
| Coal remaining on h | and at Noon, | | 2 | 15 | 50 u 50 lbs. | | |
| | | | | | | | |

| P.M. | 18.16 | YCHA | | | | | | 1 |
|------|---------------|---------|-----|----------------|------|--------|---|-----|
| 1 | 16, 6. but 6. | 6.16.6 | 2 | 30.08545146 | bog. | oth | 8 | 7 |
| 2 | 9. W. by 9 | gw. | 2-3 | 30,00004943 | | 4 | 5 | |
| 3 | Wigu | , | 23 | 30,05055245 | " | | 5 | 1 |
| 4 | jaist | west | 2 | 30.04 50 51 40 | | , | | |
| 5 | 9 W. by w | ,) | 1 | 30.08564944 | | 0 | | |
| 6 | w.Sw. | | 1 | 30.10 5 64 844 | , | " | 2 | , |
| 7 | , | , , | 1 | 30.10664943 | | | 4 | .,, |
| 8 | 20. by 16 | La alun | 0 | 30.11 56 49 44 | | , | 1 | " |
| 9 | 900.61.00 | 16.00 | / | 20.1355 Hal 43 | " (| Cixcum | 1 | |
| 10 | 16. 8 W. 76 | | 1 | 30. 1400 46 12 | | | | |
| 11 | | | 1 | 30,10044082 | | | 4 | 1 |
| Mid. | , | & jalen | 0 | 30,304441 | | | 5 | |
| | | | 1 1 | | | | | |

under the command of Communaudes I. Henry 22, , U. S. Navy, Wednesday February 22, , 1886. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Dounnences, and Centil of C. M. Armed horizon, Clear house! Fruit W. The Cray H fo. V. Co Parety clear Very hazy boed blouds is - come balu his last hour when light airs came out frame I W. Liberty party returned & reased whigh (Rainbow) at suries in hours of Washing hour Birch day. Fruncy corners Way fortowned our lead in dressing ship. blear have Al Tounstong Trouv & at Lear Hay Light airs from I Go as 9. 30 minutered or crew at Equators. H. Lear & B. H., was absent without leave . Dear hows. From Parities to of the hours and hours to great bruge to The Surface. loved Those workener engaged in Engris Diet. Theast havores of to Cound toge Trous If the & My Clear Hogy Clearant balow W light ains from week. ON MISHOGRAN Trought. It the Midwight Queing County County County County Clark hairs last hour when calm belief have Queign Co. 9 K ACCount tope. 6 usign W. JA Examined and found to be correct. Engalloway Navigator.

LOG of the United States Steamer "Ssey", 3 Rate,

| Hour. | Knots. | Tenths. | Reading of Patent Log. | COURSES STEERED Standard Courpass. | WIND. Direction by Standard Compass. | Force. | Heel. | Leeway. | Height Ther. Temperal in inches. | | State of the Weather, by symbols. | Forms of Clouds, by symbols. | Prop. of Clear Sky, in 10ths. | State of the Sea. |
|-------|--------|---------|------------------------|------------------------------------|---------------------------------------|--------|-------|---------|----------------------------------|---|---|------------------------------------|----------------------------------|-------------------|
| A. M. | | | | East | Calu | 0 | | | 30,12153434 | | beg. | cis cuu | 13 | d |
| 2 | | | | 6.98 | , | 0 | | | 30,1153434 | | , | " | 3 | , |
| 3 | | | | o" 1 | " | 0 | | | 30.11 534 134 | 7 | , | " | 5 | , |
| 4 | | | | 6. by 9 | " | 0 | | | 3010634134 | | , | " | 5 | , |
| 5 | | | | 96. | " | 0 | | | 30 12004 103 | | , | " | 5 | , |
| 6 | | | | 01/10 | NII N | 0 | | | 30,1544030 | 9 | " | 1 | 6 | " |
| 7 | | | | E. 16. E. | 9 16 6 | 1 | | | 30 1354393 | 1 | 1 | " | 6 | " |
| 8 | | | | 012 | D, alu, | 0 | | | 30.15044234 | 7 | 1 | , | 4 | " |
| 9 | | | | 6. 4/6, | G. 64/16 | 1 | | | 30 1404 403 | 2 | , | , | 6 | " |
| 10 | | | | 66/9 | , | / | | | 30,14 48 4 6 40 | 2 | , | 1 | 6 | 1 |
| 11 | | | | 6.96 | . " | / | | | 30 1352464 | 2 | " | , | 8 | " |
| Noon. | | | | E by F | " | / | | | 30.1054 494 | 1 | by. | ume | 10 | 1 |
| | | | | | | | | | | | 0 |) | | |

| Course and distance | made good since preceding noon by observations, | | knots. | t | enths. | |
|---------------------|--|-----------|----------|-----|----------|--|
| | (Latitude by D. R. | | 0 | , | " | |
| | Longitude by D. R. | | 0 | , | " | |
| Position at Noon: | Latitude by observations of ⊙ | | 0 | , | " | |
| | Longitude by chronometer from Forenoon Observat | ions of ⊙ | 0 | , | " | |
| | (Latitude by | | 0 | , | " | |
| Position at 8 a. m. | Longitude by | | 0 | , | " | |
| | (Latitude by | | 0 | , | " | |
| Position at 8 P. M. | Longitude by | | 0 | , | " | |
| Current during the | time, knots tenths per hour, setting to | o the | | | | |
| Variation of the Co | mpass by Amplitude ⊙ observed at Sunrise, ship's hea | d | 0 | , | " | |
| Variation of the Co | mpass by Amplitude ⊙ observed at Sunset, " | | 0 | , | " | |
| Variation of the Co | mpass by Azimuth ⊙ observed at " | | 0 | , . | " | |
| Variation of the Co | mpass by Azimuth ⊙ observed at " | | 0 | , | " | |
| Water expended du | ring the preceding 24 hours, | | 3 | 50 | gallons. | |
| Water | during the preceding 24 hours, | | | / | | |
| Water remaining or | a hand fit for use at Noon, | | 12 | to. | A " | |
| Coal consumed duri | ng the preceding 24 hours, | | /) tons | 108 | To lbs. | |
| Coal remaining on l | hand at Noon, | | / " | 51 | 5 " | |
| | | | | | | |

| P. M. | 10 | 1 | | | | | 0 |
|-------|----------|----------|---|-------------------|----------|----|---|
| 1 | 76. | gours. | 1 | 3006 6000 20/1/ 8 | of me | 10 | 9 |
| 2 | 9,96 | Galen | 0 | | cof cum | ^ | |
| 3 | 16,49 | South | 1 | 30.03540852 | , discuu | 0 | , |
| 4 | 99 W. | 99W | / | 30,036m/54/51 | , , | " | " |
| 5 | west | west | | 3001585448 | " " | 5 | 1 |
| 6 | W.M.W | W. M. W. | / | 30 035 m/ 52 of 6 | , on | 14 | " |
| 7 | W.by B. | " | / | 3000565046 | " " | 70 | 4 |
| 8 | west | " | , | 3008564843 | " " | 8 | 1 |
| 9 | W.by g | 1 | , | 3006014844 | " 1 | 81 | |
| 11 | W. 76 W. | " | / | 3006505046 | , | 10 | |
| Mid. | west. | b, alu | 0 | 3008461846 | of my | 10 | " |
| | and) | - Juliu | | 3000707070 | 1 | | |

under the command of Sommander J. J. Seeweer, U. S. Navy,
Thurday February 230, 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Commences and lentis of a faculture haire. Proces of the Parely clear hazy balin and light air from the bread blear house. Guilian Grant row 8, a. M. to Moridian his Generally clear, hazy bir, and clouds all last hour Light airs from 616 6 Bright an Dleasant weather of Beachte, Jais reported his time of entiretiment as having expired. When he quarters for musters and inspection at 930 after which o riefed, from Divisions at January tin Thations and Marines at Tune areus & Thicks This Good, left on proo Days leave Painting ports deck and rail. Broke out topsails an foresait was awarded ten days double irous for being disappenly while ashore on duty Commenced coaling this at 11's of . 10 Year, b. O. as brought on board by Hyogo Toling in consiquence of an offered revail having been absent so hours without leade! at 12 oc, hadrecewed 3 200 tous of coal. Clear hause A. Morgingologe roul 1 engline to 4 C Jusign W. J.) ain from Jorgh and I I'm pleasant eventher Lange rown land Light stratichiques. Coaling ships. at end of water received in hour 620 Cost blear harose. Tyurnely clear to fright. Hazel boet bloudy cis cuis friends. Light ain, brown west, of hour, & W. H.W. aplerious & Finisher coaling jat 5to hurying received in all 24 four of tolls. Deforder of County Offices placed Mb J. O Bries, 9 18 t and MS Graw Jof D willet sentres charge for fighting. Whele Elbow in haines, starboard chairs on top. Examined and found to be correct. to allows

LOG of the United States Heavyers "Steel", 30 Rate,

| | | | Reading | 0 | WIND. | | | | BAROME | TER. | TEMI | PERAT | TURE. | State of | Forms of | lear ths. | Sea. |
|-------|--------|---------|----------------------|-----------------------------------|-----------------------------------|--------|-------|---------|-------------------|--------------|-------------------|-------------------|----------------------|-----------------------------|---------------------|----------------------------------|------------------|
| Hour. | Knots. | Tenths. | of Patent Log. | COURSES STEERED Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. att'd. | Air, Dry Bulb. | Air, Wet Bulb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Clear Sky, in 10ths. | State of the Sea |
| . M. | | | | W. M. W. | 6, alux | 0 | | | 30.08 | 46 | 44 | 1 st at | , | beg. | cis euw | P | 0 |
| 2 | | | | west | 1/1 | 0 | | | 3009 | do | 46 | 43 | | | , | 8 | |
| 3 | | | | W. Kw. | Morel | 1 | | | 3009 | 14 | 45 | +3 | | , | its | 3 | , |
| 4 | | | | 16. W. | Capel | 0 | | | 3009 | to | 15 | 43 | | 4 | , | 3 | |
| 5 | | | | , , | " | 0 | | | 30 09 | ef of | 45 | 43 | | " | ,, | 3 | 1 |
| 6 | | | | Now of No | , | 0 | | | 30.09 | 46 | 44 | 42 | | , | , | 4 | , |
| 7 | | | | Now bel W. | " | 0 | | | 30.13 | 14 | 44 | 43 | | bef | " | H | " |
| 8 | | | | No by W. | , | 0 | | | 30,13 | 48 | 45 | 43 | | , | " | 3 | " |
| 9 | | | | 6 ash | , | 0 | | | 30.14 | | 1 | | | , | " | 3 | 1 |
| 10 | | | | 98619 | 01 | 0 | | | 30.18 | | - | | | sew. | cus Vried | 0 | |
| 11 | | | | E 4/ 16. | Gast | 1 | | | 30.14 | | | | | " | " | 0 | 1 |
| Voon. | | | | W. by 16. | 16 (1) | 1 | | | 30 16 | | | | | , | , | 0 | |

| Course and distance | made good since preceding noon by observation | ons, | knots. | | tenths. |
|---------------------|---|-------------------|--------|------|-----------|
| | (Latitude by D. R. | | 0 | , | " |
| | Longitude by D. R. | | 0 | , | n' |
| Position at Noon: | Latitude by observations of ⊙ | | 0 | , | " |
| | Longitude by chronometer from Forenoon | Observations of ⊙ | 0 | - , | " |
| | (Latitude by | | 0 | , | " |
| Position at 8 a.m. | Longitude by | | • | , | " |
| | (Latitude by | | 0 | , | " |
| Position at 8 P. M. | Longitude by | | 0 | , | " |
| Current during the | time, knots tenths per hour, | setting to the | | | |
| Variation of the Co | ompass by Amplitude ⊙ observed at Sunrise, s | hip's head | 0 | , | " |
| Variation of the Co | mpass by Amplitude o observed at Sunset, | " | 0 | , | " |
| Variation of the Co | mpass by Azimuth ⊙ observed at | " | 0 | , | " |
| Variation of the Co | mpass by Azimuth O observed at | " | 0 | , | " |
| Water expended du | ring the preceding 24 hours, | | | 33 | Ogallons. |
| Water | during the preceding 24 hours, | | | | " |
| Water remaining or | hand fit for use at Noon, | | / | 06 | 50 " |
| Coal consumed duri | ing the preceding 24 hours, | | 1 to | ns 3 | 90 lbs. |
| Coal remaining on l | hand at Noon, | | 24 | " 18 | 65 " |

| P. M. | | 71/1/ | V . / / | | | 41. | | 1 |
|-------|---|-------------|-------------|-----|-------------------------------|-----------------|---|-----------|
| 1 | | W. H. W. | M. W. by W. | / | 3015615144 | s cen cun daine | 0 | 9 |
| 2 | | W. by 16. | , | / | 30,135,15146 | reg. | 0 | 4 |
| 3 | | 8",1 | 8",1 | , | 3012515046 | , , | | Section 1 |
| 4 | | g 6 6/6. | 8 / by 9 | , | 3011815046 | " cis incus | 0 | 4 |
| 6 | | 16 by 6. | 26/0 | 2 | 3010504916 | " It Vient | 0 | " |
| 7 | | Hores | Mores | 2 | 30 15 19 19 19 18 | , , | 0 | " |
| 8 | | 16. 64 W. | , | 3-4 | 30.10 Auf H44H 3018 H64340 | " cis veen | 0 | 14 |
| 9 | | | | 2-4 | 3020454240 | , , | | |
| 10 | | 16 hw. | , " | 1 | 3022464341 | . " | | |
| 11 | | M. W. by M. | Caem! | 0 | 3023444542 | . , | 0 | " |
| Mid. | 1 | W.KW. | " | 0 | 30 20 48 40 43 | " " | 0 | |
| | | | | | | | | |

under the command of Commander February Letter, U. S. Navy, Friday February 24, 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Drummerces and butis 4. a 1 First harf of water clear, then clouded Elbour in house for Legytyken Troud A for 8. a. A. Parely clear hazy set part foggy aptipioned level balux Debit came on Loand. Received W issued to crew 16/4 lbs fresh bulg & negetables and 93 lbs fresh bread. Elboud in hairel. Gusiga With Now 8. 4. 1. to Mexidian befored In overcast. Call fires half light airs from East shifting his bell last hour af 9. 30 unistered y unspected at quarters. at 9.00 chilled all hand bend Sail. Bent Sail & extracised at sail Oxice. Cleaned elbows in harrie. along of watch elbow in have starboard chair on has be Gased J. M. S Coan, & D. J. O Bries, 965 from sentres charge Fainting hatchi our Merelian to 4 in painting ship inside and first cutter. W. Thompson, Tea, was found muster the influences of liquors " which liquors in his possession. That him en double gun latter. Received ten pounds of nails subject hound correct lock Level Wight Overcast & cloudy Deag Fight airs from Jat & Shifting Tis gradually sucreasing to under at beigg flow Morth Received is Courtriction Lept 100 ff of 1' legul d. at 6.30 transferred fuis Though way sprofis friend spub which arrived at the things to the formation book, doubt hazy Friend friend har har for the thought ferred fire to bailer 5 4 y. Theur Willy Examined and found to be correct.

LOG/of the UNITED STATES the harden of Thoke Galle 0 W. gw. 3022484643 Muby 1 30 24+84 542 week 30 254 6 +3 11 Would 3025454240 Mouth 30 2445 to to 16 W. by 8 3025444130 30 25 Add 1139 16 8 4 G 30 24 A 6 A 3 A 1 296 30.24 49+6+3 30 36 5 34 946 10 Eng 30255/47/44 11 98649 30235246+3 Noon Course and distance made good since preceding noon by observations, knots. tenths. Latitude by D. R. Longitude by D. R. Position at Noon: Latitude by observations of ⊙ Longitude by chronometer from Forenoon Observations of ⊙ (Latitude by Longitude by Position at 8 P. M. Latitude by knots Current during the time, tenths per hour, setting to the Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head Variation of the Compass by Amplitude ⊙ observed at Sunset, Variation of the Compass by Azimuth ⊙ observed at Variation of the Compass by Azimuth ⊙ observed at Water expended during the preceding 24 hours, during the preceding 24 hours, Water remaining on hand fit for use at Noon, Coal consumed during the preceding 24 hours, Coal remaining on hand at Noon,

| . М. | 1 | 1 | | | | BALL |
|------|------------|----------|---|----------------|-------------|------|
| 1 | Touch | 9,6. | | 3019534946 | beg eigeney | 89 |
| 2 | gu 1 | Tout | / | 30,003 4946 | cis ung | - |
| 3 | gw by g | 1 | / | 30165351 44 | | 8 |
| 4 | 9.w. by.w. | Galen | 0 | 30,00045248 | 4 4 | 1 |
| 5 | 9.w. | Horth | 1 | 30.14535349 | , , | 8 1 |
| 6 | 16 16 W | 7 | 1 | 30.12 525 1 44 | | 4,1 |
| 7 | 16.16.6 | " | 1 | 30.1250 2925 | , , | 4 1 |
| 8 | 16 by 6. | 1. | / | 30.13494946 | by un | 10 , |
| 9 | 11.649 | 16, alun | 0 | 3012444444 | bog cis at | 5, |
| 0 | Mouth, | 8 N. 6' | | 3011464644 | | 4,1 |
| 11 | 6.611 | " | 2 | 30.09484441 | | 4 1 |
| lid. | 4 | " | 3 | 3005 23 23 20 | . " | 3 |

under the command of Commander J. February 25, 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Louve Jeneralls cloud, hays bacu Is light air from the W. Cens Thouse the fair he clear weather hary Light airs from Hout first harf, calm last harf. Received in Pay Diet 98 lbs breed Gless harves hause Engaged in Resident Fight buy from 96 mg 6 Clear by Country winds of ship Sailing lands By orbes for having liques in his possession on board ship. From Monitain to A. P. Harauf Clean auf Calus Est Cois from I to South bross in have, starboard chair on top. From the faction cloud enter last hour when clears.

Sharp around horizon. Flight airs from Morth. Ellow in hours,

sharp around horizon. Flight airs from Morth. Ellow in hours,

sharp around cloudy Hay leaden by legist airs to great burg

from horizon chairs of the Many leaden by legist airs to great burg

from the Biggs outilling. Elban in hours, transamoching of Cersing Wagfall Examined and found to be correct. Lengalloway Linkly

LOG of the United States I teamers Skell, 3 Rate,

| | | 1 | | | | | | | | | | | | | | 1000 |
|-------|--------|---------|----------------------|--------------------------------------|-----------------------------------|--------|-------|---------|------------------------------|-------------------|-------------------|---------------------|-----------------------------|------------------------|--------------------------|--------------|
| | | | Reading | 1 | WIND. | | | | BAROMETER. | TEM | PERAT | | State of | Forms of | Clear Oths. | se Sea. |
| Honr. | Knots. | Tenths. | of Patent Log. | COPESES STEERED by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height Ther in inches. att'd | Air, Dry Bulb. | Air, Wet Baib. | Waterat Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of 8 Sky, in 10 | State of the |
| A. M. | | | | East. | 816 | 2 | | | 30. 05 st 8 | of 2 | 40 | | Acq. | un rund | 0 | g |
| 2 | | | | 616 | | 3 | | | 300249 | 4/2 | 40 | | | , | 0 | |
| 3 | | | | | | 3 | | | 299444 | 112 | 10 | | teg. | , | 1 | |
| 4 | | | | , | , | 2 | | | 2993 Hy | 1/2 | 39 | | ocz. | , | 0 | |
| 5 | | | | , | | 2 | | | 298844 | 44 | 40 | | 7 | , | 0 | , |
| 6 | | | | , | | 2 | | | 298146 | No | 41 | | , | " | 0 | , |
| 7 | | | | 7/11/ | , | 1 | 33 | | 29 80 46 | af u | 41 | | reur! | 7 | 0 | , |
| 8 | | | | 16 66/ X | 1. | 1 | | | 398046 | | | | red | " | 0 | , |
| 9 | | | | Hart | baller | 0 | | | 29 4 Jet 4 | 150 | 48 | | 7 | cuny | 0 | 11 |
| 10 | | | | W. M. W. | " | 0 | | | 29 41 48 | 49 | 48 | | 7 | ", | 0 | , |
| 11 | | | | week | local | 1 | | | 396848 | | | | do ' | em may | 3 | " |
| Noon. | | | | 9 w | gw) | 3 | | | 2968 day | | | | 1.5 | , | 0 | 1 |
| | | | | | | | | | | | | | | Tonas de | | |

| Course and distance | made good since preceding noon by observation | ns, | knots. | tenths. | |
|----------------------|---|-------------------|--------|-----------|--|
| | (Latitude by D. R. | | | , " | |
| | Longitude by D. R. | | • | , " | |
| Position at Noon: | Latitude by observations of ⊙ | | 0 | , " | |
| | Longitude by chronometer from Forenoon C | Observations of ③ | • | , " | |
| | (Latitude by | | • | , " | |
| Position at 8 a. m. | Longitude by | | | , ,, | |
| | (Latitude by | | | , " | |
| Position at 8 P. M. | Longitude by | | | , ,, | |
| Current during the t | | etting to the | | | |
| | upuss by Amplitude @ observed at Sunrise, sh | | • | , " | |
| | npass by Amplitude © observed at Sunset, | | • | , ,, | |
| Variation of the Cor | npass by Azimuth ⊙ observed at | 4 | 0 | , ,, | |
| Variation of the Cor | npass by Azimuth ⊙ observed at | ш | | 5' " | |
| Water expended dur | ring the preceding 24 hours, | | 0 | 50 gallon | |
| Water Lie | tilled during the preceding 24 hours, | | 18 | 50 " | |
| Water remaining on | hand fit for use at Noon, | | 93 | 300 " | |
| Coal consumed durin | ng the preceding 24 hours, | | | 330) lbs | |
| Coal remaining on h | and at Noon, | | 91 " | 665 | |
| | | | | | |

| P. M. | 1 | 11.101 | , | 121/01/11 | beg wing | 49 |
|-------|----------------|--------|-----|---------------|-------------|-------|
| 1 | W. 64 1 | wish | / | 19.66 A846 AN | Jeg. wind | 47 |
| 2 | wish, | ,) | 34 | 2963N8 Napoll | , , | 2 1 |
| 3 | W.by K wish | , . | 34 | 296450 A8ch5 | begd. | 6 " |
| 4 | 21 1 | | 34 | 3965514845 | deg , | 7 " |
| 5 | 16 w. by M |), 1 | 3-4 | 2941514844 | begh " | 6, , |
| 6 | No by. W. | 16 w | 35 | 2948504541 | beysh " | st, " |
| 7 | 16 W. | 7 | 24 | 498549 4340 | begh , | 4" |
| 8 | 16 W. by 1 | | 34 | 2489194341 | beg cigency | , |
| 9 | 16. W. | | 2 | 3992504341 | tes . | 5" |
| 10 | week | | 2 | 249/00/2/0 | to " | 4" |
| 11 | , | | 2 | 29.96504210 | | 4 " |
| Mid. | W.by X | | 1 | 2998501240 | | 12/11 |
| | | | 11 | | | |

under the command of Commander, J. February 26th, U.S. Navy, RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Journally overcas & and Louder Hays bloust cum Wening. God.

Light he gruss bruge from 616 & Distribuy. Gross in have of the Distribuy of the State of the Distribuy of the State of the St been from week to I w. I blenishweek, Fals, reported his time experied. From Heridian to 4. PM Gerings Wiggetts Drugging vais 3! hour Stiff breize is light to mod rate squalls from From the S. S. O. A Cusings to Statisticity leter have. Trow & The Midnight Cloud cis-cum Thawing slightly haves. Plant brught Cloud cis-cum Thawing slightly haves. Examined and found to be correct. En Galloway Tient & Navigator.

LOG of the United States I teamer Steel, 30 Rate,

| | - | - | the state of the s | and the second second second second second | | 1/ | | | | | _ | | | | | - | 1 |
|-------|--------|---------|--|--|---------------------------------------|--------|-------|---------|-------------------|--------------|----|----|-------------------|---|------------------------------------|----------------------------------|-------------------|
| Hour, | Knots. | Tenths. | Reading of Patent Log. | COURSES STEERED by Standard Compass. | WIND. Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | | | | Water at Surface. | State of the Weather, by symbols. | Forms of Clouds, by symbols. | Prop. of Clear Sky, in 10ths. | State of the Sea. |
| # | × | T | | reps Clas | | | - | - | | | | | | | | HØ | 00 |
| A. M. | | | | 7/.7 | 16/11 | , | | | | 1 | , | , | | . 1. | 8/. | | d |
| 1 | | | | W. by 16. | 16.W. | / | | | 29.98 | 49 | 42 | 40 | - | -0.5 | cun wind | 2 | 7 |
| 2 | | | | 16. W by 16 | 7 | 1-3 | | | 30 00 | 49 | 11 | 39 | 7 | begh | " | 2 | 11 |
| 3 | | | | west | , | 1 | | | 3000 | 49 | 41 | 39 | 7. | de, | , | 2 | " |
| 4 | | | | 16 W bit W. | | 1 | | | 3001 | | | | | , | " | 2 | " |
| 5 | | | | Halw. | , | 1 | | | 30 06 | The state of | 1 | 1 | | bel | " | 6 | " |
| 6 | | | | Haret | " | 1 | | | 3006 | | | | | be | cir cuu | 1 | 1 |
| 7 | | | | 7 5 | , | 1 | | | 30 08 | | 1 | | | , | | in | , |
| 8 | | | | 16. 16 W. | , | 1 | | | 3009 | | | | | " | " | 4 | 1, |
| 9 | | | | W. 16 W. | local | 1-2 | | | 3004 | 1 | | 1 | * | bes. | curring | 12 | " |
| 10 | | | | W. by X. |) | 1-2 | | | 3000 | Hat | 39 | 36 | | " | " | 6 | , , |
| 11 | | | | week | | 1-2 | | | 30 09 | | 1 | | , | " | , | 4 | , , |
| Noon. | | | | Whal | , | 2-3 | | | 3009 | | | | | " | , | 4 | - |
| | | | | | | | | | 1 | | | | | | | | |

| Course and distance | made good since preceding noon by observations, | | knots. | t | enths. | |
|---------------------|---|------|--------|-----|----------|--|
| | (Latitude by D. R. | | 0 | , | " | |
| | Longitude by D. R. | | 0. | , | " | |
| Position at Noon: | Latitude by observations of ⊙ | | 0 | , | " | |
| | Longitude by chronometer from Forenoon Observations | of ⊙ | 0 | , | " | |
| | (Latitude by | | 0 | , | " | |
| Position at 8 a. m. | Longitude by | | 0 | , | " | |
| | (Latitude by | | 0 | , | " | |
| Position at 8 P. M. | Longitude by | | • | , | " | |
| Current during the | time, knots tenths per hour, setting to the | | | | | |
| Variation of the Co | mpass by Amplitude ⊙ observed at Sunrise, ship's head | | • | , | " | |
| Variation of the Co | mpass by Amplitude ⊙ observed at Sunset, " | | • | , | " | |
| Variation of the Co | mpass by Azimuth ⊙ observed at " | | 0 | , | " | |
| Variation of the Co | mpass by Azimuth ⊙ observed at " | | 0 | , ' | " | |
| Water expended du | ring the preceding 24 hours, | | 0 | 50 | gallons. | |
| Water Lik | tilled during the preceding 24 hours, | | 13 | 50 |) " | |
| Water remaining or | hand fit for use at Noon, | | 28 | 200 | 2 " | |
| Coal consumed duri | ng the preceding 24 hours, | | / ton | 859 | o lbs. | |
| Coal remaining on l | hand at Noon, | | 20 " | 14 | 0 lbs. | |
| | | | | / | | |

| P. M. | 2/1/ | 1 / 2/ / | | | | vid annum | | d |
|-------|------------|--|----|---------------|------|-----------|---|-----|
| 1 | W.1641 | W. M. W. | 2 | 3006463936 | besg | wint | 2 | 7 |
| 2 | W. 9 W., | 4 | 21 | 3005 453036 | bes. | " | 2 | " |
| 3 | W. by 9. | " | 2 | 3006 453034 | tel. | | | |
| 4 | " | 2 1 , | 2 | 30.06 26 2139 | , | " | 0 | 11 |
| 5 | Mily 6. | wish | 2 | 3006 Auf 4/39 | bes. | cuminink | 1 | 11. |
| 6 | 16 def 6. | \"\"\"\"\"\"\"\"\"\"\"\"\"\"\"\"\"\"\" | 1 | 3000/2/4/4240 | " | " | 2 | " |
| 7 | 16 166 | 16.6 | 1 | 300011/1/2010 | des | " | 2 | " |
| 8 | 16 8 by N. | " | 1 | 3009441240 | | | / | 11 |
| 9 | HE W. W. | | / | 30,0494240 | | 1 | 2 | " |
| 10 | " | | 1 | 30,042,12,10 | * | | 3 | 1 |
| 11 | 1 w. by w | " | / | 3010 13 1240 | " | " | 4 | " |
| Mid. | M. H. W. | " | / | 3010 12/2/10 | | 1 | 6 | " |
| | | | 11 | | | | | |

Townway February 2 1, 18 88. under the command of RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Laure Lear cool and pleasants. Dight airs from 16. W. Glear Itour H. ho. & a M Seved Light ain how to W. Received 93 lbs fuch brind for, issue at 8. loosed sail to a bouling Clear haires. Trover & Col to Meridian Parely clear, bright "wo cold Fight fall of second blours cum wyant. Right airs to being fever week increasing to gretty brug at end of coated of thatis but reported him of entirtement as having expired. Went to Greenal Gasten of 9 ds. Sextel mayaying & shere room flood cocks & found there by good of the S. Fale & T. J. G. Heating cap to returned from less. in Enguinen Dept. lelear hairs. row Meridian to 4 PM Gustign W. The Dorcach by cloudy Light sured falling. Fight being from U.M. at 1: or fulled sail. Geraed out clean parminoche. Ex annield or gue-cotton and found in good condition. Thationed Toyled a Division. These harges. Washever from shore employed in Engri Dept. This ped for cruing as 200 ah Mee Locks From 4. to 8 CM Light ain to fregg from week 1st park, light 166, ains afficiones. Tent Joeon J. J. Huds the weaths at suuses blear haiver Lend liberty Daity ashow! Those workenew Hurcket off work for the carfell Cupts Dept. Crow S. J.M. hill ibeught Cloudes gradesacly clearing to fair eventhis Fight ain from 16. Elelean house Busign W. JA Examined and found to be correct. ED Galloway

LOG of the United States I teamer "Ssey", 30 Rate,

| | | | Reading | 0 | WIND. | | | | BAROMETER. | TEM | PERAT | | State of | Forms of | Hear other. | e Sea. |
|-------|--------|---------|----------------------|--------------------------|-----------------------------------|--------|-------|---------|-------------------------|-------------------|-------------------|---------------------|-----------------------------|---------------------|--------------------------------|----------------|
| Hour. | Knots. | Tenths. | of Patent Log. | COVESES STEERED Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. Ther. | Air, Dry Bulb. | Air, Wet Balb. | Waterat Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Cles Sky, in 10ths | State of the S |
| A. M. | | | | W. by 16. | Calul | 0 | | | 301149 | 12 | 10 | | best. | cis eur | 2 | 9 |
| 2 | | | | | , | 0 | | | 301141 | 41 | 39 | | , | , | 4 | . // |
| 3 | | | | 16 W. by W. | , | 0 | | | 30111 | 41 | 39 | | " | RIF | of | " |
| 4 | | | | 16 W. by 16. | " | 0 | | | 30,1140 | 40 | 38 | | " | " | 8 | 1 |
| 5 | | | | W.M.W. | 7 1 " , | 0 | | | 30 11 40 | | | | " | 1 | 8 | , |
| 6 | | | | 9 9W | West | 1 | | | 301342 | 10 | 38 | | 15 | cun str | 9 | , |
| 7 | | | | 9.W., | ") | 1 | | | 3014 4 = | 39 | 34 | | " | 1 | 9 | , |
| 8 | | | | W. by. of | 1 | 1 | | - | 301842 | 38 | 36 | | " | , | 9 | " |
| 9 | | | | W. 9 W. | " | 2 | | | 302/43 | 40 | 38 | | " | cis | 8 | , |
| 10 | | | | W. H. W. | ' " | 2 | | | 3031 43 | 1 - | 1000 | | , | 7 | 4 | , |
| 11 | | | | W by 9 | " | 2 | | | 30.31/4 | 4/2 | 39 | | , | Cir cuns | 4 | " |
| Noon. | | | | wesh | " | 2 | | | 30,2043 | 2/3 | 40 | 7 | 1 | " | 8 | , |

| Course and distance | made good since preceding noon by observations, | knots. tenths. |
|---------------------|--|---|
| | (Latitude by D. R. | 0 , " |
| | Longitude by D. R. | 0 , , |
| Position at Noon: | Latitude by observations of ⊙ | 0 , " |
| | Longitude by chronometer from Forenoon Observations of ⊙ | 0 / // |
| | (Latitude by | 0 , , |
| Position at 8 a.m. | Longitude by | • , ,, |
| | (Latitude by | 0 , , |
| Position at 8 P. M. | Longitude by | o , , , , , , , , , , , , , , , , , , , |
| Current during the | time, knots tenths per hour, setting to the | |
| Variation of the Co | mpass by Amplitude ⊙ observed at Sunrise, ship's head | 0 / // |
| Variation of the Co | mpass by Amplitude ⊙ observed at Sunset, " | • , ,, |
| Variation of the Co | mpass by Azimuth ⊙ observed at " | · , , |
| Variation of the Co | mpass by Azimuth \odot observed at | |
| Water expended du | ring the preceding 24 hours, | 360 gallons. |
| Water | during the preceding 24 hours, | , " |
| Water remaining on | hand fit for use at Noon, | 2450 " |
| Coal consumed duri | ng the preceding 24 hours, | 350 gallons. 2450 " tons 2020 lbs. |
| Coal remaining on l | nand at Noon, | 19 " 295 " |
| | | |

| P. M. | | / | 1 | | | | | 1 |
|----------------|---|-------------|---------|--------------------|--|-----------|-----|----|
| 1 | | gu, | 9w/49 2 | 30,18 A5 AA HO | he. | cit cum | 8 | 9 |
| 2 | | Wig W. | ,, 2 | 3016 48 4442 | 1 | 1 | 100 | |
| 3 | | 9 chy W | 99W 2 | 3015504844 | " | cuy | 9 | " |
| 4 | | 9,9 W. | , 2 | 30155/4843 | " | 4 | 9 | 11 |
| 5 | | 9 by W | 1,2 | 30245/4843 | beg. | 1 | 9 | " |
| 6 | | Might by W. | balle o | 3014 524946 | beg. | " | 4 | " |
| 7 | | Mount | , 0 | 30,12534946 | , | 1 | 8 | |
| 8 | | 16,648 | , 0 | 3014534016 | " | - | 8 | 11 |
| 9 | | Horse | " 0 | 30,15,53 4845 | by. | ume | | " |
| 10 | | 16.6" | 0 400 | 3016 5 3 Haftel | 65 | cis euros | 6 | 4 |
| 11 | | " | 67.6. | 3016534543 | " | | 3 | " |
| Mid. | 1 | " | " | 30. 10 oll of alst | " | 1 | 3 | 4 |
| and the second | | | | | A COUNTY OF THE PARTY OF THE PA | | | |

under the command of Commander of Sunday February 28th , U. S. Navy, , 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Doumenges and lutis 4 a 1 Clear Wood Hightly harf around horizon. Bright wouligns. Calew. Clear haisse. From 4 to. 8. a. X Freit With Calcult front Light airs from week afterwards Tikerty party returned.

Received for issue to creed 1/6/4 lbs each of fresh beef 4 registables 4/93 lbs bread. There workenes for Euges Dept came on board. Tent up I. g. masts any yard at 80c. blear harose. Carried away end of four I.g. Mark populis fedding, wash landing on hopsail yard. O ACTong story. row 8. a. M. tho Maridians Guiges to 9 16. at 9.30 muestered and inspected at quarters at immediately afterwards warrings at book dries; Those your semenengaged in Engr's Sept Tent I. J. Thorry, Ja 15 to U J. Consulate to, auxuaes to the charge

There Meritians has the PA Surge from Fly by I Ill Failwaker at work men have the forgy out land Tight brings from I lear and blearant. Hazef the forgy out land Tight brings from I lear and blearant. Hazef the forgy out land Tight brings from I lear the Sound have calculated of water blear hairs from I I'm, finch hour calculations of water blear hairs from I I had being the forget to the foreign the form of the first hairs from I have been a calculated the foreign the lear hairs

Examined and found to be correct.

ten Gallow Light Ef Navigator.

LOG of the United States Steamers of Robe "Ssleet", 3 Rate,

| RAROMETER TEMPERATURE State of Porms of Patent Log. Coffree Steeped Direction by Standard State of Clonds, by State of Clonds, by Standard State of Clonds, by Standard State of Clonds, by State of Clonds, by Standard State of Clonds, by State of Clond | Figure 1 | 1 |)- | | | | 0) | - | | | | | | |
|--|------------|--------|---------|--------------|------------|-----------------------|--------|-------|---------|--------------|--------------|------------------------------------|----------------------------------|-------------------|
| 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Hour. | Knots. | Tenths. | of Patent | | Direction by Standard | Force. | Heel. | Leeway. | | the Weather, | Forms of Clouds, by symbols. | Prop. of Clear Sky, in 10ths. | State of the Sea. |
| 3 1 | A. M. 1 | | | | 166/6. | E. N. E. | / | | | 30.1650 4/44 | boy. | ciscum | 3, | d |
| 4 9 South 2 301654 46 Hr bog. wing 10 5 9 South 1 3020 49 46 15 " 3 10 9 Solf & John 1 3020 49 46 15 " 3 10 9 Solf & John 2 3025 1 49 49 " 5 10 9 Solf & John 2 3022 1 49 49 " 5 11 9 Solf & South 2 3022 49 41 " 5 | 2 | | | | Wish | 1 | 1 | | | 30.165AH6HA | 1 | 1 | H | 1 |
| 5 10 10 9 6 6 9 6 1 30 225 1 49 49 1 10 9 6 6 9 6 9 6 9 6 9 6 9 6 9 6 9 6 9 6 | 3 | | | | 4) | 111 | / | | | 30.165AH64A | , | 1 | 2 | 1 |
| 6 16 16 16 10 0 301/53 4 444 10 0 10 2016 3 4 444 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 4 | | | | 1 | Malie | 0 | | | " / | Sig. | une | 10 | , |
| 7 16 & b. 6. 0 301/03 dal 4 1 ais and 3 8 North North 1 30205 frag 16 ref incum 0 9 E. M. E. 1 302150 49 46 be "3 10 9 E. b. E. 1 302150 49 44 " | 5 | | | | " | 1 | 0 | | | | beg. | cis eury | 3 | , |
| 8 Morth Morth 1 30205 fright ref incum 0 9 6 h 6 9 6 1 3025 1 49 44 , 6 10 9 6 h 6 9 6 1 3025 1 49 44 , 6 11 9 h 6 9 out 2 30225 1 49 44 , 2 | 6 | | | | 1 " 0 | 7 | 0 | | | 3015 54 4543 | 1 | | 1 | 11 |
| 9 6.166. 1 3021504946 45 3 10 96 6 96 1 3022514944 , 6 11 96/6. Goulf 2 3022494413 , 2 | 7 | | | | 16.6 by 6. | N", | 0 | | | , , , | 1, | at alia | 3 | 9 |
| 10 9 6 by 6 9 6 1 3022514944 , 6 1 11 9 by 6 9 out 2 302249443 , 2 | 8 | | | | Most | 16 ord | 1 | | | | ref | on curry | 0 | , |
| 11 9 by 6. 9 out 2 30 22 19 19 1 1 2 | 9 | | | | 6166. | 1000 | 1 | | | | 15 | " | 3 | 1 |
| in 1990. South and any of the | 10 | | | | 9 6 by 6. | 96. | 1 | | | | " | , | 0 | " |
| Noon. 9 by W. " 2 302250 Dry for " Cully 2. | 11 | | | | 9 646. | Gouth | 2 | | | . / / . / / | 1 | " | 2 | " |
| | Noon. | | | | 9 by W. | " | 2 | | | 302250444 | 1 | cuu | 2 | 6 |

| Course and distance | made good since preceding noon by observ | rations, | knots. | tenths. | |
|---------------------|--|----------------------|--------|-----------|--|
| | (Latitude by D. R. | | • | , " | |
| | Longitude by D. R. | | • | , ,, | |
| Position at Noon: | Latitude by observations of ⊙ | | | , " | |
| | Longitude by chronometer from Foreno | on Observations of ⊙ | • | , " | |
| | (Latitude by | | 0 | , " | |
| Position at 8 a.m. | Longitude by | | • | , ,, | |
| | (Latitude by | | 0 | , ,, | |
| Position at 8 P. M. | Longitude by | | • | , " | |
| Current during the | time, knots tenths per ho | ur, setting to the | | | |
| Variation of the Co | mpass by Amplitude o observed at Sunris | e, ship's head | | , " | |
| Variation of the Co | mpass by Amplitude © observed at Sunset | , " | • | , " | |
| Variation of the Co | mpass by Azimuth ⊙ observed at | 4 | | , " | |
| Variation of the Co | mpass by Azimuth o observed at | и | . 0 | _ " | |
| Water expended du | ring the preceding 24 hours, | | 96 | gallons. | |
| Water | during the preceding 24 hour | 8, | | " | |
| Water remaining on | hand fit for use at Noon, | | 21 | 00 " | |
| Coal consumed duri | ing the preceding 24 hours, | | tons | 2200 lbs. | |
| Coal remaining on l | hand at Noon, | | 18 " | 335 " | |
| | | | | | |

| P. M. | 1// | | | 1 |
|-------|------------------------------------|-----------|---------------|------------------|
| 1 | 99W. | Tout 2 | 30225148 45 | boy cir eun of 9 |
| 2 | 9.w. | , 2 | 302250 14 464 | bedy , 2 , |
| 3 | 9 6/W- | , 2 | 3022501815 | bez " 3 " |
| 4 | Tout | 21 11 , 2 | 3022514916 | bed 7 , 3 , 11 |
| 5 | 990 | Cores 2 | 3024514946 | 15 " 4" |
| 6 | 16 by 6 | , 12 | 3024544942 | · cigeun 8 1 |
| 7 | , | , 13 | 3024494612 | by ume 10 4 |
| 8 | | , , 2-3 | 30 24 48 2241 | |
| 9 | 16 8 by 6 | Mill! | 3026 44 45 43 | Je ciseus 8 " |
| 10 | 816 | balino | 3028 + 645 48 | " 9, |
| 11 | 16 & by 6. E. 16 &. N. by w. | 1 | 3030 45 4442 | anish 8 " |
| Mid. | , | " 0 | 303045 4142 | , , , , |
| | | , | | |

under the command of Soumander, J. Jewell, U. S. Navy, Coled wisday February 29, 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Commences, " Centie of a M Jeour G. H. G. Clean hainse. Lais increasing to clear weather Light dires from 6 16. From H. fo. 8. a. X. Galy last hour Received in Pay Lept 93 lbs bright blughery af 1 sto, crossed hopgarlant and royal yours. Have proparations for landing party.

Trouv & a M. to Meridian Cusing by Glossing brossing have blowdy. Pleasant Light variable aim brossing have Starbourd chain on hofs. at 9: landed, Marines, Blujackets Company of Infanty and articlery for Friel. They beturned as From Megistian to of PM Junis W. Light bruge from Tout. Bent spanker a dinghip our was broken while drughy was oushor being scrubbed. Consumen from show engaged in Eligis Dept. Cross in hawse standard chais From H to 8. P. Mood balow by light airs from Horst light airs from Horst light our bout bless have Just Leghtily from to W. Clear, hower. Dright mornlight balun Wlight airs Gusys Hogget Examined and found to be correct. E.D. & alloybay Navigator.

LOG of the United States Steamers "Ssey", 30 Rate,

| | | | Reading | COURSES STEERED | WIND. | | | | BAROMETER. TEMPERATURE. | State of | Forms of | f Clear 10ths. | he Sea. |
|-------|--------|---------|----------------------|-----------------|-----------------------------------|--------|-------|---------|--|-----------------------------|------------------------|-----------------------|----------------|
| Hour. | Knots. | Tenths. | of Patent Log. | Theps Head | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. Alt. D. Y. D. Water at Water a | the Weather, by symbols. | Clouds, by symbols. | Prop. of Sky, in 1 | State of the S |
| A. M. | | | | Now. | Horsel | 1 | | | 3031444341 | L | cia str | -8 | 9 |
| 2 | | | | gw. byw. | Called | 0 | | | 3031484240 | , | - | 8 | 1 |
| 3 | | | | Sw. by 9 | Hareh | 1 | | | 3030484240 | 1 | 1 | 4 | 1 |
| 4 | | | | 6.76.6 | , | 1 | | | 3028 48 4039 | " | cis | 4 | " |
| 5 | | | | 1 | 21/0 | 1 | | | 30.28483936 | toy | cia cury | 9 | 4 |
| 6 | | | | 8 m/ 16. | 616 | 1 | | | 30,26+63936 | , | " | + | 1 |
| 7 | | | | 0", 0 | " | 2 | | | 3024 + 63936 | , | 1 | 5 | , |
| 8 | | | | 6166 | 7 | 23 | | | 3023464038 | , | -11 | 5 | - 1 |
| 9 | | | | | 1 | 3 | | | 3020+84239 | bef | 25 | 2 | 1 |
| 10 | | | | E 4 %. | 4 | + | | | 3018 48 43 40 | " , | central- | H | 1 |
| 11 | | | | 01/0 | . " | 4 | | | 3016284441 | oef | cid cum | 0 | - |
| Noon. | | | | 6.16.6. | " | 3 | | | 30 15 48 46 41 | ocy. | ets rived | 0 | 4 |

| Course and distance | Course and distance made good since preceding noon by observations, | | | | tenths. | |
|----------------------|---|----------------------|------|----|-----------------|--|
| | (Latitude by D. R. | | | , | " | |
| | Longitude by D. R. | | • | , | " | |
| Position at Noon: | Latitude by observations of ⊙ | | • | , | " | |
| | Longitude by chronometer from Foreno | on Observations of ⊙ | | , | " | |
| | (Latitude by | | • | , | " | |
| Position at 8 a. m. | Longitude by | | • | , | " | |
| | (Latitude by | | 0, | , | " | |
| Position at 8 P. M. | Longitude by | | • | , | " | |
| Current during the | time, knots tenths per ho | ur, setting to the | | | | |
| Variation of the Con | mpass by Amplitude o observed at Sunris | e, ship's head | | , | " | |
| Variation of the Co | mpass by Amplitude © observed at Sunset | , " | | , | " | |
| Variation of the Con | mpass by Azimuth ⊙ observed at | " | ٥ | , | " | |
| Variation of the Con | mpass by Azimuth ⊙ observed at | " | | | " | |
| Water expended dur | ring the preceding 24 hours, | | ق خ | 33 | o gallons. | |
| Water | during the preceding 24 hour | 3, | | , | " | |
| Water remaining on | hand fit for use at Noon, | | 11 | 10 | 50 " 50 lbs. | |
| Coal consumed duri | ng the preceding 24 hours, | | J to | 15 | 50 lbs. | |
| Coal remaining on h | nand at Noon, | | 17 . | 2 | 85 " | |
| | | | / | | | |

| P. M. | 1/28416 | 616 | 3 | 30,10 1948 43 | A A A au | vine o l |
|-------|--------------|------|-----|----------------|----------|----------|
| 2 | 16 6. C. | | 3 | 30 0529 48 45 | 1.0.1 | 11 0 1 |
| 3 | V a . a | 16.8 | 3 | 3001 29446 | , | , 01 |
| 4 | 16 E W. 6. | " | 3-4 | 29.94 48 14/5 | ng. | 1 0 1 |
| 5 | 16816 | 1 | 3-4 | 29.93 48 44 26 | 1 - 2 | 1 0 1 |
| 6 | 16. E. of 6. | " | 3 1 | 29.90504924 | tes. | 1 0 1 |
| 8 | | " | 2 | 1990513148 | 1 | " 0 " |
| 9 | 16. E. W. 6. | 1 | 3 | 2990616249 | , | , 08, |
| 10 | " | , | 4 | 2914025249 | 1 | 4 0 1 |
| Mid. | 8.16.6 | 1 | 3 | 2980436550 | bas | " " " |

under the command of Summander J. Flewell
Thursday Harch 128 , U. S. Navy, , 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Commences and Unitis H. a. M. airs from Korth. bless hower.

Jean M. cord. barn Wilight airs from Korth. bless hower.

Jeins W. J. H. From It ho & all Partly clear with circum clauss Oright & cold. Hazy over land. Fight will fram Bout 1 ch hour, shifting to 6 th 6, in light airs to great breeze Estirty party 93 the fresh, bread bleand havore I have workener for Engineers Dept carry ow board brossed I. 9 4 Boyal Yards 4 loved Suit ho d bouling as fre. From & a M. In Mosibian Guarters then exercised at said ories for led sail is friped drow at 11 a. M. Workenen from short engaged in Engri Dept Clear house Trow Meridian to of P.M. Guisight Wy Overcast with cui " enint clouds. I aiming continually. Just breeze from 6 16, 1st part, grittle to riso soats it & breze afterinard I Gually last hour. Of when of lowers Officer & E Destois 1.5. a was put whom severy charge to avoid trial by 9.6 Martial and the factoring change in and P.O Bries, Sea his quarter Junes, Putting were plansing in Joh Lend of Straw leuter. at work no were havenock clothe & Jigs Parts. Glen Haire A Ste Pany Stry From H to 8. C. M. Squary, Moderate to light being from the aid 5.50 sent dorox royal yards and wade colors belian harow. From & The Miseight Cum, & wind, Clearing slightly at Eng of watch fruit his was rate breeze from H & Broken chap sea fray Gusigs W. Just Examined and found to be correct. Low. Lallo why he

LOG of the United States Steamer Steamer Stell', 30 Rate,

| | Reading | | | COPRSES STEERED | WIND. | | | | BAROMETE | ER. T | ЕМРІ | ERAT | | State of Forms of | Bear ths. | e Sea. | |
|-------|---------|---------|----------------------|-----------------|-----------------------------------|--------|-------|---------|-------------------|-------|--------|-------------------|----------------------|-----------------------------|---------------------|----------------------------------|-----------------|
| Honr. | Knots. | Tenths. | of Patent Log. | Skifi's Olad | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | her. | Balls. | Air, Wet Balb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Clear Sky, in 10ths. | State of the Se |
| A. M. | | | | 616 | 616 | 3 | | | 29.445 | 43 | -40 | 52 | | tel | come wint | 0 | 6 |
| 2 | | | | " 0 | , | 3-4 | | | 29445 | 15 | 40 | 52 | | regts | , | 0 | " |
| 3 | | | | 16.6 | , | 2 | | | 29 425 | 43 | 30 | 51 | | , | 1 | 0 | 1 |
| 4 | | | | 10 | 7"10 | 2 | | | 29 40 5 | of s | 40 | 52 | | ses | 4 | 0 | ", |
| 5 | | | | 96. | 696 | 1 | | | 29.145 | 50 | 4 | 53 | | ocuv. | " | 0 | 9 |
| 6 | | | | No W. by 16. | 900 | 1 | | | 294650 | 50 | -60 | 84 | | " | 1 | 0 | " |
| 7 | | | | laish | , | 1 | | | 29810 | 60 | He | 82 | | 1 | , | 0 | " |
| 8 | | | | , | , | 1 | | | 29825 | 40 | 30 | 52 | | , | , | 0 | " |
| 9 | | | | , , , , | loish | 1 | | | 2982 5 | 65 | 30 | -2 | | 11 | , | 0 | 9 |
| 10 | | | | al by Mo | W. by 36, | 1 | | | 19825 | 66 | 30 | 50 | | boy. | , | 3 | 1" |
| 11 | | | | gw. 1 | 6. by 9. | 1 | | | 29.835 | | | | | , , | " | 1 | " |
| Noon. | | | | 6 bef 9 | " | 1 | | | 29.850 | 68 | 30 | 51 | | " | " | / | " |
| | | - | | | | | | | | | | | | | | | |

| Course and distance | made good since preceding noon by observa | ations, | knots. | | tenths. | |
|----------------------|---|----------------------|--------|------|-----------|--|
| | (Latitude by D. R. | | 0 | , | " | |
| | Longitude by D. R. | | 0 | , | " | |
| Position at Noon: | Latitude by observations of ⊙ | | 0 | , | " | |
| | Longitude by chronometer from Forence | on Observations of ⊙ | 0 | , | " | |
| | (Latitude by | | 0 | , | " | |
| Position at 8 a. m. | Longitude by | | | , | " | |
| | (Latitude by | | • | , | " | |
| Position at 8 P. M. | Longitude by | | 0 | , | " | |
| Current during the t | time, knots tenths per hou | r, setting to the | | | | |
| Variation of the Cor | mpass by Amplitude o observed at Sunrise | | 0 | , | " | |
| Variation of the Cor | mpass by Amplitude o observed at Sunset, | " | 0 | , | ,, | |
| | mpass by Azimuth O observed at | " | 0 | , | ,, | |
| | npass by Azimuth ⊙ observed at | u | · 1 | , | " | |
| Water expended dur | ing the preceding 24 hours, | | 9 | 50 | gallons. | |
| Water | during the preceding 24 hours | | | 1 | | |
| Water remaining on | hand fit for use at Noon, | | 11 | to | 1 " | |
| | ng the preceding 24 hours, | | / tor | . 14 | (O) the | |
| Coal remaining on h | | | 16 " | 14 | " 10 lbs. | |

| P. M. | 1 | 1 | 1 | | | 1 |
|-------|----------|----------|---|-----------------|------------|-----|
| 1 | 9 w.by | Tw. by 9 | 1 | 29.84565352 beg | i wind 2 | 9 |
| 2 | W. M. W. | Gash | 1 | 298406 5053 | , 3 | " |
| 3 | 6,96, | , | 1 | 2985 155 452 " | cis aux, 6 | 7 |
| 4 | East | " | / | 21.86565452 " | , 5 | " |
| 5 | n'a | , | 1 | 2984 5654 62 | , 6, | " |
| 6 | 166 | 6:1 | / | 29.89 58 5452 | , 6, | 1 |
| 7 | 96 | Maleu | 0 | 2990515152 | . 4 | , 4 |
| 8 | 9.6/6 | " | 0 | 2991 545332 | , 7 | - |
| 9 | quisifu. | ^ | 0 | 2993565351 | . 0 | 1 |
| 10 | July W. | " | 0 | 2995.656150 | , 9 | 1 |
| 11 | W.by 16. | 1 | 0 | 2995555049 | 1 6 | |
| Mid. | " | " | 0 | 299555049 | 1 | 1 |

under the command of Summander of Suame , U. S. Navy, Tribay March 2 , 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. blian havore. I ho. S. a. M. cloudy with rain. Gently his light buy from 6168.

Trour H ho. S. a. M. to a bowling. Received for issues in Pay Degit 93 the fuch hear beleas haven Trous 8. a M. hr Meridian Euros cury wing. Light airs firm Out wo W. of to part, shifting he Ent. latter part. Broke out fore hold & cleaned forward briggs to restoured. Putting were plansing on port head of thous Brand of Survey wet as heed turous or acticles in Equipment at beneticition Departiculo: in coates closets I. G. Mark orges " how ling o seas, bout for gally. Cleared harve after ship severed with head to Cash which she did at 11 20 Trough Meridian to H P. M. Curing to Join escarles high airs from School Schifting to Cash at 12:55 winh to Tin Guarters, all the devisions ready in 13 40 49. From Repairing steam-cuter. The Chings with the Granty clear, hazif bis cury cloud Light airs firm Gast of part and calle aplicioners Thore warfeines in Euge's Dipli Those blear and pleasant ballin blear hurse Examined and found to be correct. E. Gallowdy Leux Ma

LOG of the United States Steamer Sty, 3' Rate,

| | | | | | | | - | | | | _ | | |
|-------|--------|--------|----------------|-----------------|-----------------------------------|--------|-------|--------|--|--------------------------|------------------------|-------------------------|-----------------|
| | | | Reading | COURSES STEERED | WIND. | | | , .v | BAROMETER. TEMPERATURE. | State of the Weather, | Forms of Clouds, by | , of Clear in 10ths. | the Sea. |
| Hour. | Knots. | Tenths | Patent Log. | This Head | Direction by Standard Compass. | Force. | Heel. | Leeway | Height in inches. Ther. Dr. Altr. Marter at Marker at Ma | by symbols. | symbols. | Prop. o Sky, in | State of the Se |
| A. M. | | | | 1 | 1 | | | | | | cid | | A |
| 1 | | | | M. W. by W. | Calew | 0 | | | 2995555048 | bay. | cun et | 3 | 4. |
| 2 | | | | 16. 16.W. | , | 0 | | | 2995555048 | " | " | 1 | / |
| 3 | | | - | week | 1, | 0 | | | 2994565048 | , | , | 1 | " |
| 4 | | | | 9 w. by w. | South | 1 | | | 2994554948 | " | " | 1 | |
| 5 | | | | W.by 9 | west | 1 | | | 2994545048 | " | cuu | 1 | |
| 6 | | | | 9 W. by W. | 4.8 a. | 1 | | | 2994 3 4 9 44 | - | , | 3 | " |
| 7 | | | | ,70 | Calle | 0 | | | 30,000 3 49 48 | bet | , | 5 | d |
| 8 | | | | 99W | " | 0 | | | 30.0153 48 48 | , | 4 | 5 | , |
| 9 | | | | 966/6. | 0 1 | 0 | | | 30.05545144 | beg. | cir eur | 6 | , |
| 10 | | | | 8 16 | Gast | 1 | | | 3005535048 | / | , | 4 | - |
| 11 | | | | "10~ | /.) | 1 | | | 3004535048 | " | 7 | of | , |
| Noon. | | | | 896 | " | 1 | | | 2003515148 | , | | 4 | , |
| | | | | | | | | | | | | 1 | |

| Course and distance made good since preceding noon by observations, | | | | | tenths. |
|---|--|--|-----|-------|----------|
| (Latitude by D. | R. | | 0 | , | " |
| Longitude by 1 | D. R. | | 0 | , | " |
| Position at Noon: Latitude by ob | | | 0 | , | " |
| | hronometer from Forenoon Observations of © | | 0 | , | " |
| (Latitude by | | | 0 | ,' | " |
| Position at 8 a. m. Longitude by | | | 0 | , | " |
| (Latitude by | | | 0 | , | " |
| Position at 8 P. M. Longitude by | | | 0 | , | " |
| Current during the time, k | nots tenths per hour, setting to the | | | | |
| Variation of the Compass by Amplita | ude ⊙ observed at Sunrise, ship's head | | 0 | , | " |
| Variation of the Compass by Amplita | ude ⊙ observed at Sunset, " | | 0 | , | " |
| Variation of the Compass by Azimut | h ⊙ observed at " | | 0 | , | " |
| Variation of the Compass by Azimut | h ⊙ observed at " | | 0 | , | " |
| Water expended during the preceding | | | .3 | 50 | gallons. |
| | ng the preceding 24 hours, | | | | " |
| Water remaining on hand fit for use a | | | 10 | 50 | 7 u |
| Coal consumed during the preceding | | | ton | s 2 i | 90 lbs. |
| Coal remaining on hand at Noon, | | | | 21 | 55 " |
| | | | | | |

| P.M. | 0 1 | 1 / | | | | | | 1 |
|------|-----------|--------|-----|-----------------|------|----------|-----|---|
| 1 | Grayes | Ehl 9 | 1 | 30,005 K5350 | bog. | cis cua | 89 | 1 |
| 2 | Tojut | , | 1 | 3000515651 | | course | 0 | |
| 3 | g by W | 9.6 | 1 | 2999625653 | 1 | , | 8, | - |
| 4 | 9 W. by 9 | | - | 29.98 605 N/5H | | ais | | |
| 5 | W. by g | baller | 0 | 2998605954 | " | cis eury | 6,0 | , |
| 6 | W. K.W. | " | 0 | 299/5/5553 | - | " | | |
| 7 | E by the | " | 0 | 2999 545453 | , | | 800 | |
| 8 | Jul. 8111 | 1 | 0 | 29 90 5 45 4 53 | 1 | | 8 1 | |
| 10 | 996 | * | 0 | 49956553 | ile | et | 8 1 | |
| 11 | gw. | | 0 | 2999 565451 |) | | 1 | |
| Mid. | 96 | " | 0 | 299/65350 | 7 | | 9 | |
| | | | 1 1 | | | , | / | |

under the command of Sunnanders J. J. Jenney, U. S. Navy, Galunday March 30, 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Orenninger, and Cutif If COM how when light Gly airs. brock in howell. The Secretary airs from week to be guy afternands. Light airs from week to be guy afternands. Light airs form week to be guy by Jank bolling afternands. Light airs form of go los fresh bread. Toosed sail to a bowling at "the long in have. Trow of Clear how bleasant Light and from Grand Consign to Shortens in hory around hory of Glynn how hory around hory of Stand and from the Stand of Stand hory around hory of Stand how hory around hory of Stand how to be shortens in hory around hory of Stand how to be shortens on the shortens on to be shortens on to be shortens on to be shortens on to be shortens on the shortens of the shortens on the shortens of the sho Trover of ho. S. P. M. Weathers. Hay over land balus bosses at skarboard chairs on hops. Exercised for pero divisions Trough P.M. to Midnight 211 Joonna pleas, galier leval. Loues tione in harale sharboard chain in obediences to offer of reerand. Placed heis in double irous to avoid action of Commanders. of A Dechtyly Jely W.J.M.

Examined and found to be correct.

En Galloway wight Navigator.

LOG of the UNITED STATES WIND. BAROMETER. TEMPERATURE. COURSES STEERED by Standard Courses. Direction by Standard Compass. Hour. A. M. balen 6 601 10.96565149 29 9456 51 49 2991565149 3 by 6 29905550 48 2993545119 5 6 299455 5350 outs 29950 0 350 8 2995 on 6451 Gast 2993065148 10 29.890 5 AgH 6 11 2984 56 4944 Garl 3984 2 f of 9 44 Noon. Course and distance made good since preceding noon by observations, knots. tenths. Latitude by D. R. Longitude by D. R. Position at Noon: Latitude by observations of ⊙ Longitude by chronometer from Forenoon Observations of ⊙ (Latitude by Position at 8 a. m. Longitude by (Latitude by Position at 8 P. M. Longitude by Current during the time, knots tenths per hour, setting to the Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head Variation of the Compass by Amplitude ⊙ observed at Sunset, Variation of the Compass by Azimuth ⊙ observed at Variation of the Compass by Azimuth ⊙ observed at Water expended during the preceding 24 hours, Water & Wittle during the preceding 24 hours, Water remaining on hand fit for use at Noon, 2400 " Coal consumed during the preceding 24 hours, / tons 22/0 lbs. Coal remaining on hand at Noon, 12 "2185" P. M. 2986564949 1ch comming 0 29.80034948 July W. M. M. E. M. M. J. K. M. E. M. K. M. M. M. M. 29805 pt gray 16 by 6. 2980514944 2982504846 Calle 298450Hgsty Po M. W. 3984484846 M.W. 29.85 18445 16 16 W. 16. 16 W. to 2986 1846 44 16 h 6. 3980482644 2989 / 4 644 11 16.166 Mid. 3989 1/64 6 44

number the command of Sommy ander of Several Just 18 88.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

RECORD OF THE MISCELLANEOUS EVENTS OF LOSS, Something of Light and Several Light of the Several Construction of Several Construction of Several Constructions of Several Co

Journand of the Hary have been freed of water Light brush for the South of the South of the Structure of the South of the South of the Structure of the Structu

Trouve Heard in have Sistaling. Land baley by legal barrians aim.

There of the Missing Light ain & buys from to 16 is.

Cusign W.

Examined and found to be correct.

20. Galloway Navigator.

LOG of the United States Steamers Stell, 3 Rate,

| | | | | | | _ | | <u></u> | | | | | | | | | |
|-------|--------|---------|----------------------|---------------------------------------|-----------------------------------|--------|-------|---------|-------------------|--------------|-------------------|-------------------|----------------------|-----------------------------|---------------------|------------------------------|---------------|
| | | | Reading | 1 | WIND. | | | | BAROME | ETER. | TEMP | PERAT | URE. | State of | Forms of | lear ths. | |
| Hour. | Knots. | Tenths. | of Patent Log. | COUNSES STEERED OF Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. att'd. | Air, Dry Balb. | Air, Wet Balb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Cle Sky, in 10th | On to South O |
| М. | | | | 21 11 1 | 2/ 1/ / | | | | | | | | | , | ann ot | | |
| 1 | | | | 16.16.W. | 16 16 W. | 2 | | | 29.88 | 44 | 46. | 44 | | bey. | wint | 1 | 0 |
| 2 | | | | week, | " | 2 | | | 1990 | 46 | 45 | 43 | | , | " | 6 | |
| 3 | | | | 9 W. W. 9 | 4 | 1 | | | 2991 | | 1 | | | , | | 8 | |
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| 5 | | | | 6 16 6 | Ku | / | | | 2991 | 1 | | | | bo | euw etr | 9 | |
| 6 | | | | 16.16. | ,, | 1 | | | 2991 | , | 1 | | | , | " | 9 | |
| 7 | | | | Harth | no now. | 1 | | | 2994 | | | | | | ., | 9 | |
| 8 | | | | | 6 alus | 0 | • | | 2996 | | | / | | 1 | ,, | 9 | |
| 9 | | | | 16 16 6. | now. | 1 | | | 3000 | 1 | | | | " | " | 8 | |
| 0 | | | | Woda. | South | 1 | | | 30.01 | | - 1 | | | " | cir anu | 6 | |
| 1 | | | | of del | ddw. | 1 | | | 3001 | | | | | , | , | 5 | |
| oon. | | | | gw. w/w. | west | 2 | | | 3001 | | | | | , | 7 | # | |

| Course and distance made good since preceding noon by observations, | knots. tenths. |
|--|-----------------|
| (Latitude by D. R. | o , ,, |
| Longitude by D. R. | . , ,, |
| Position at Noon: Latitude by observations of ⊙ | · , , |
| Longitude by chronometer from Forenoon Observations of ⊙ | 0 , " |
| (Latitude by | · ' '' |
| Position at 8 a. m. Longitude by | 0 , ,, |
| (Latitude by | 0 , " |
| Position at 8 P. M. Longitude by | 0 , " |
| Current during the time, knots tenths per hour, setting to the | |
| Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head | 0 , , |
| Variation of the Compass by Amplitude ⊙ observed at Sunset, " | 0 , " |
| Variation of the Compass by Azimuth ⊙ observed at " | 0 , " |
| Variation of the dompass by Azimuth ⊙ observed at " | · 0 - " |
| Water expended during the preceding 24 hours, | 350 gallons. |
| Water / Mille during the preceding 24 hours, | |
| Water remaining on hand fit for use at Noon, | 2800 " |
| Coal consumed during the preceding 24 hours, | 1 tons 680 lbs. |
| Coal remaining on hand at Noon, | 11 "1505" |
| | |

| P. M. | 111 | ud (| | | | | | 1 |
|-------|----------|----------|--|-----------------|------|-----------|----|----|
| 1 | W.Gw. | W.dul. | | 29.98 49 44 43 | bey. | cin cua | 50 | 1 |
| 2 | 1. " and | , | 3 | 29.99494412 | " | , | # | 11 |
| 3 | Whis | Jul. | 9 | 39995/4944 | , | " | 0 | , |
| 4 | W. gw | w.dw. | | 2995514843 | , | | | |
| 5 | wish | w.g.w. | 3 | 299850 24 48 | " | | | |
| 7 | (Court | * | | 300/2184542 | icz. | | | |
| 8 | Will. | W. 4 16. | 1 | 30.08 A SASSAGE | ver | | | |
| 9 | 166. | 16.6 | 1 | 30.08 Abrief do | bes | em rivers | 6 | 1 |
| 10 | 16 by 6. | " | 1 | 30.12 46442 | bey. | " | 6 | 11 |
| 11 | W. by of | wish | 1 | 30,446 No48 | | | 3 | " |
| Mid. | W. by G. | · west | / | 30.1154412 | " | | 3 | 1 |
| | | | A CONTRACTOR OF THE PARTY OF TH | | 1 | 1 | | |

under the command of Council auches J. J. Severel, U. S. Navy,

Mouday March 5 4, 1888 RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Dounences and luckis of a Coed. Bright worning he after 12" Light airs to buest from to the Clear haiver. Jusign With row 4 to 8, a1 blear and pleasant. Calm and light airs from How and M. M. W. Hazy alowed Thy horizon. When hawsel as of to loosed Sail to a bowling. of A. Deghting Trous 8. a Micho Maridians as buy from Fruit to 16 916 9. Borout to General quarters. Jas Thiels This book and to Boyle on every absent without leaker. But reward of ten year ashore for Thierds at 10.25 shortened & ail. at 10.26 event to quarters and igrefricted clean hammerches. Francon Coursel paid a visit hoth ship. Dear hawse Will Hogg getty our Assidias to 4. C.M Ousing W.JA has Juite breez from W. J. to Ted. Furled sais at 100. Coppering who bot laquick in roade of reed planseign Thousevorkeden in gagedin Egens Sept Finishes Dainting prop deck foutside of former bross in house at we of words butters of the French Corvers Runagus called. Eusign Usty Thous of to. 8. V. Party clear first hay sourced last harfevill rain less hour loves. Greath breeze to light airs fearer W. G W to W. by the all Luncif South Drups touch you cests and clards. Unfined touch soils. Hugh Color haves. blean haives. no / wought Bright starlight afterwards level Hours Cum Vaint brees in house. Shifted to week blouds cum Vaint brees in house. Examined and found to be correct. Los Gallogray, Sinsigator.

LOG of the United States Steamer Steel, 3 Rate,

| | | | Reading | 1 | WIND, | | | | BAROME | ETER. | TEMP | PERAT | | State of | Forms of | Clear Oths. | he Sea. |
|-------|--------|---------|----------------------|----------------------|-----------------------------------|--------|-------|---------|-------------------|--------------|-------------------|-------------------|----------------------|-----------------------------|---------------------|-------------------------------|-----------------|
| Hour. | Knots. | Tenths. | of Patent Log. | by Sandard Contrass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. att'd. | Air, Dry Bulb. | Air, Wet Bulb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Cles Sky, in 10th | State of the Se |
| A. M. | | | | Jul. | 168 | 1 | | , | 30.12 | 4 4 | 43 | 41 | | do | cum & many | 4 | d |
| 2 | | | | 6.76 6.0 | " | 1 | | | 30.14 | , , | | | | , | eis eun | 8 | , |
| 3 | | | | 16 16 6 | , | 1 | | | 30.15 | 43 | 43 | 41 | | " | , | 4 | " |
| 4 | | | | 16 6 | " | 1 | | | 30,15 | 42 | 42 | to | | " | , | 4 | " |
| 5 | | | | no How. | " | 1 | | , | 30.16. | 42 | 41. | 39 | | , | " | 6 | 1 |
| 6 | | | | Why K. | " | 1 | | | 30,00 | | | / | | 1 | - | 18, | " |
| 7 | | | | 2 ". / | 6" | / | | | 3021 | | 1 | | | " | " | 4 | 9 |
| 8 | | | | wish | Dalle | 0 | | | 3022 | | 1 | | | ; | " | 11 | 1 |
| 9 | | | | le by w | 16.00. | 1 | | | 30.24 | | 1 | 0 | | ved. | 1 | H | 4 |
| 10 | | | | No W. W. K. | , | 1 | | | 3022 | | | | | " | ex emu | 0 | 1 |
| 11 | | | |) " / |) " / | 2 | | | 30.22 | | | -/ | | , | cus ency | 0 | , |
| Noon. | | | | west | west | 11 | | | 30.20 | elot | 42 | 04 | | togs | any much | 9 | |

| Course and distance | made good since preceding noon by observation | ns, | knots. | tenths. | |
|---------------------|---|-------------------|--------|------------|--|
| | (Latitude by D. R. | | ٠, | " | |
| | Longitude by D. R. | | 0 , | " | |
| Position at Noon: | Latitude by observations of ⊙ | | ٠, | " | |
| | Longitude by chronometer from Forenoon C | Observations of © | 0 , | " | |
| | (Latitude by | | 0 , | " | |
| Position at 8 a. m. | Longitude by | | 0 | , ,, | |
| | (Latitude by | | 0 | , ,, | |
| Position at 8 P. M. | Longitude by | | 0 | , ,, | |
| Current during the | time, knots tenths per hour, s | etting to the | | | |
| Variation of the Co | ompass by Amplitude o observed at Sunrise, sh | ip's head | 0 | , ,, | |
| Variation of the Co | empass by Amplitude ⊙ observed at Sunset, | " | 0 | , ,, | |
| Variation of the Co | mpass by Azimuth ⊙ observed at | " | 0 | , ,, | |
| Variation of the Co | ompass by Azimuth o observed at | " | °, | , ,, | |
| Water expended du | ring the preceding 24 hours, | | 35 | O gallons. | |
| Water | during the preceding 24 hours, | | 245 | " | |
| Water remaining or | n hand fit for use at Noon, | | 245 | 0 " | |
| Coal consumed duri | ing the preceding 24 hours, | | / tons | 920 lbs. | |
| Coal remaining on l | hand at Noon, | | 10 " | 1185 " | |
| | | | | | |

| P. M. | 2 / | . / | | | | | | 1 |
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| 1 | Coest | W. KW. | 2.3 | 30.18 44 4230 | begs. | murine | 2 | 9 |
| 2 | M. W. Sif W. | , | 23 | 30.16 of start 0 | 1 | , | 3 | " |
| 3 | " | , | 23 | Bo 10 45 4340 | Acq. | " | 5 | " |
| 4 | 1 " 1 | , | 2-3 | 30,6454339 | 1 | 4 | 5 | , |
| 5 | 16 W by 16. | 16"6 | 23 | 30,18 40 1341 | begs | " | 4, | " |
| 6 | 16.446. | 16.6 | / | 3018 10013 12 | 155 | " | my | " |
| 7 | 16.16.6 | 1 | / | 30.8 44 44 42 | beg. | or cury | 6 | 4 |
| 8 | W W | 1 " | / | 30.18434211 | , | " | 6 | " |
| 9 | 16. W. 6/16. | 10, alu | 0 | 3019434240 | 6.5 | 1 | 7 | " |
| 10 | W. M. W. | " | 0 | 30194340 | " | , | 8 | " |
| 11 | wish | " | 0 | 3019131210 | " | 4 | 10 | |
| Mid. | cours | 1 | 0 | 3019124139 | 1 | " | 9 | " |

nnder the command of Security ander March, U.S. Navy,

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Tourneyces, and Centil of C. Ming from 16 6' blus Hause. From the 8 a Massaul. Calin a light air from the cal Jets sent up tigets much & yards. Secress for itsy in Parts of 116/14 the each of fuel buf y negetables of 93 lbs fries bread. Of far hourse. From & a M. to Meritian Gusty Gours Guoring last hours. reported his returns from leave at 9", lauded battaling for company dried Dattaling returned at 1000 got in Sailing launch. Relieved in Marigation Sept ong 16 6 and my 16: 8 Energy of 2 Purewants, my 16: 2 a one 10.5. Fruit weeks 16:20 cracket in the stock. Clear hairis. Of Allowerstructy from Meritians hot PM Gusigs W. The Gusiges to Des ign wires from Course remainers of water ign wires hour from to the Congress to per. Trown of hours cum afterwards. May Cold. Fight to good brisg From & PM to Midnight balen bling hands Jak seuset bless haisse Eusey W. The

Examined and found to be correct.

Low Gallow fight & Navigator.

LOG of the United States Steamers Sself, 3 Rate,

| | | | Reading | | WIND. | | | | BAROMETER. | TEM | PERA | TURE. | State of | Forms of | Hear ths. | e Sea. |
|-------|--------|---------|----------------------|---------------------------------------|-----------------------------------|--------|-------|---------|------------------------------|-------------------|-------------------|---------------------|-----------------------------|---------------------|--------------------------------|----------------|
| Hour. | Knots. | Tenths. | of Patent Log. | Copreses STEERED by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height Ther in inches. att'd | Alr, Dry Balb. | Air, Wet Bulb. | Waterat Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Clea Sky, in 10ths | State of the 8 |
| A. M. | | | | W.by 9. | West | 2 | | | 30244 | 100 | 3.8 | , | 4 | iums | 10 | 9 |
| 2 | | | | W. by 16. | 1 | 2 | | | 30244 | | 100000 | | , | , | 10 | 1 |
| 3 | | | | M. No W. | 2/1 | 2 | | | 302441 | | | | ", | , | 10 | 1 |
| 5 | | | | M.W. | May. | 1 | | | 30,23 f | | | | beg. | ors cury | 5 | " |
| 7 | | | | W. 76 W. | , | 1 | | | 30.2343 | 24 | 39 | | " | cis aug | 2 | " |
| 8 | | | | 16 8 by 6 | 16 | 1 | | | 3029 HA | | 100 | | " | , | 4 | 4 |
| 10 | | | | 9,646, | d" / | 1 | | | 20,2841 | 148 | +0 | 7 | " | | 2 | 1 |
| Noon. | | | | I beful | I muly | 1 | | | 30.28 Ho | | | | beg. | un wing | 3 | 11 |
| | | | | | | | | | | 1 | | 1 | | , | | |

| Course and distance | made good since preceding noon by observations, | knots. tenths. |
|---------------------|--|-----------------|
| | (Latitude by D. R. | 0 / 1/ |
| | Longitude by D. R. | 0 / // |
| Position at Noon: | Latitude by observations of ② | . , , |
| | Longitude by chronometer from Forenoon Observations of ⊙ | . , , |
| | (Latitude by | 0 / " |
| Position at 8 a. m. | Longitude by | · , , |
| | (Latitude by | 0 / // |
| Position at 8 P. M. | Longitude by | 0 , " |
| Current during the | | |
| Variation of the Co | mpass by Amplitude @ observed at Sunrise, ship's head | 0 / // |
| Variation of the Co | mpass by Amplitude ⊙ observed at Sunset, " | 0 , " |
| Variation of the Co | mpass by Azimuth ⊙ observed at " | 0 , " |
| Variation of the Co | mpass by Azimuth ⊙ observed at " | 0 0' - " |
| Water expended dur | ring the preceding 24 hours, | 300 gallons. |
| Water | during the preceding 24 hours, | |
| Water remaining on | hand fit for use at Noon, | 1 tons 320 lbs. |
| Coal consumed duri | ng the preceding 24 hours, | / tons 320 lbs. |
| Coal remaining on 1 | and at Noon. | 9 "865 " |

| P. M. | 1 | 1 | | | , | | | 1 |
|-------|---------|------|---|-----------------|------|------------|----|----|
| 1 | The W | Tout | 1 | 30,20464240 | ba | Cuy Vising | 2 | 9 |
| 2 | Going | 1 | / | 3023464341 | beis | " | 1 | , |
| 3 | 111 | // | / | 30,23484412 | 1 | 1 | 2 | 1 |
| 4 | 9. J.w. | " | / | 30 23 H 9 Hod 3 | 15 | 4 | 2 | 1 |
| 5 | Touch | " | / | 3023Haf45HD | 4 | cis euros | 3 | , |
| 6 | gul. | " | / | 3025481612 | , | 1 | 2 | 7 |
| 7 | 16 by 6 | " | / | Bo 25484612 | 1 | " | 8 | , |
| 8 | 411 | " | / | 30,25 46 44 1 | by. | ume | 10 | " |
| 9 | Mily E. | 1, | / | 3026454239 | , | , | 10 | |
| 10 | Mely 6. | Calu | 0 | 30,2541188 | 1 | , | 10 | 1 |
| 11 | 168 | , | 0 | 3029414108 | | 7 | 10 | 11 |
| Mid. | | " | 0 | 302911/4038 | " | | 10 | " |

under the command of Criminaudes J. Jensel, U.S. Navy, Wednesday May of nfth, 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Dounnerges and links It a. M. Clear and coed. Jeuns brug frond west. Clear harries Trous of hos & Com Cloudy by hay aftereaged blouds cer cung with both Light and from the bread Thousand for course for cury ships for course of the form of the current bloudy. Hay south land Right airs from I to Going at 930 minus before we at 930 minus for the form of the course of the form of the course of the said and form of the sound and form of the said arms of the course of the cour The loosed Suil to, a fourties lelear hause Tigo Too my Trow Meridean to A CM airs from July Light sprinkly of rape for a few unimeter during last hour af 1:45 Shortined " at 3? 30 furled sail brose in hawse, starboard chair ou hato. A. F. Lechulu Trous I ho & P. A clear weather Fight airs from South in harase starbrage chain on hofs. Dent liberty party an share Somo! Thour & The the thing had buy the call first part, they cally blow in harver, thankard chair ou hopo. Jos & Deelity rent la 916. Examined and found to be correct. Dogacloway [Navigator.

LOG of the United States Steamers of Robe "Steeps, Rate, Wind.

WIND. BAROMETER. TEMPERATURE.

| | | | Reading | 1 | WIND, | | | | BAROMETER. | TEMI | PERAT | | State of | Forms of | Clear othe. | be Sea. |
|-------|--------|---------|----------------------|----------------------|-----------------------------------|--------|-------|---------|--------------------------------|-------------------|-------------------|----------------------|-----------------------------|------------------------------------|-----------------------|--------------|
| Hour. | Knote. | Tenths. | of Patent Log. | by Standard Courass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. Ther. att'd. | Air, Dry Bulb. | Air, Wet Bulb. | Water at Surface. | the Weather, by symbols. | Forms of Clouds, by symbols. | Prop. of Sky, in 1 | State of the |
| A. M. | | | | 16 16 6 | ball | 0 | | | 3026 Na | 140 | 34 | , | do | enen cip | 9 | 9 |
| 2 | | | | 6166 | 666. | 1 | | | 3028/4 | 10 | 34 | 1 | * | 1 | 9 | 1 |
| 3 | | | | , | " | 1 | | | 3018 41 | | | | " | 1 | 8 | , 1 |
| 4 | | | | 166 | 1 | 1 | | | 3029 JA | | | | ba. | Time | 10 | " |
| 5 | | | | 16 8 by 16. | , | 1 | | | 30.29 13 | | | , | 1 | " | 10 | 1 |
| 7 | | | | 0 % 0 | , | 1 | | | 30,29 11 | 40 | 98 | | , | 1 | 10 | 1 |
| 8 | | | | 6.16.6. | a', | 1 | | | 30,2914 | 11 | 38 | | , | e is enue | 10 | 4 |
| 9 | | | | 6 6/16 | Gash | 1 | | | 3030+6 | 43 | 340 | | tog. | eigeney et | n | " |
| 10 | | | | Gash | . # | 1 | | | 30.300fal | 1 | 4/ | | 4 | " | my. | 11 |
| 11 | | | | 649 | 10 | 1 | | | 30 2950 | 18 | 15 | | 4 | | my, | , |
| Noon. | | | | 96. | 96 | 1 | | | 309852 | 51 | shap | 1 | | " | y | " |

| Course and distance | made good since preceding noon by observations, | | knots. | | tenths. | |
|---------------------|--|------|--------|----|-------------|--|
| | (Latitude by D, R. | | 0 | , | " | |
| | Longitude by D. R. | | 0 | , | " | |
| Position at Noon: | Latitude by observations of ⊙ | | 0 | , | " | |
| | Longitude by chronometer from Forenoon Observations of | of o | 0 | , | " | |
| | (Latitude by | | 0 | , | " | |
| Position at 8 a. m. | Longitude by | | 0 | , | " | |
| | (Latitude by | | 0 | , | " | |
| Position at 8 P. M. | Longitude by | | 0 | , | " | |
| Current during the | time, knots tenths per hour, setting to the | | | | | |
| | mpass by Amplitude ⊙ observed at Sunrise, ship's head | | 0 | , | " | |
| | mpass by Amplitude ⊙ observed at Sunset, " | | 0 | , | " | |
| Variation of the Co | mpass by Azimuth ⊙ observed at " | | 0 | , | " | |
| | mpass by Azimuth o observed at | | 00 | , | " | |
| | ring the preceding 24 hours, | | 3 | 50 | gallons, | |
| Water | during the preceding 24 hours, | | 1 | , | " | |
| Water remaining or | hand fit for use at Noon, | | 12 | 5 | 0 " 20 lbs. | |
| Coal consumed duri | ing the preceding 24 hours, | | / tons | 32 | 20 lbs. | |
| Coal remaining on l | hand at Noon, | | 8 " | 54 | 15 " | |
| | | | | | | |

| P. M. | 86 | d 6. | , | 2.252 - 10 | bog | 16 | 1 | 9 | 2 |
|-------|-----------|-------|------|---------------|------|-----------|---|---|---|
| 2 | | | 1 | 3021550651 | acg. | " | 4 | 1 | |
| 3 | 6 4 6 | 6 nul | 1 | 302086065 | - | , | 4 | 1 | |
| 5 | 6 4 6 | , | 0 | 3018505854 | " | " | 6 | , | |
| 6 7 | 6 il d | " | 0 | 30,74801 03 | " | " | 5 | 1 | |
| 8 | 16.6 | " | 0 | 30.1186319 | 1.5 | cun Vaint | 0 | " | |
| 10 | 616 | 876. | 3 et | 3015 56 50 16 | ocy. | , | 0 | " | |
| Mid. | No 8'61.6 | 4 | 2 | 3014534945 | 161 | | 0 | | |

under the command of Suyuau Des J. J. Seevel, U. S. Navy, Jhursday March 8th, 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Drumences and Cutif H. a. M. harase starboard chain on hop. Trous of to & at A Sign airs from the as & crossing the buffer organistic fresh bush buffer organistics fresh bread. Trous & a Merifician Surger Golden Jewerally clear hazer balen & light airs from I I Wallace G. Job an A. Doyle, Ght were found great ou board chips and by order of the landy Officer coulder was placed judge sentry change " Dayle in Cauble irous both he await funder actions. plean hauss. Minhoygate Ousign W. 1/6 Partially cloudy first three hours then, doudy. Coenther Charant. Galew. Clear hoursel. Placed U.G. Doine, Ga. S', willes sentrys I charge for hung orung on outer and a Bergman 18.9 under suctains change for threatening sentry; both to await further action of Comments. C/ A Degualy Trows & P. M. the Midewight back balun my light airs to Ousigs W. 96 Examined and found to be correct. En Galloway Navigator.

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| / | / | 0 | ore | Diw th | s har | bN |)01 | 1 | all | 0 | | | | | |
| | | | Reading | A | WIND. | | | BAROMETE | | | | State of | Forms of | lear ths. | e Sea. |
| F. | its. | ths. | of Patent Log. | by Standard Compass. | Direction by Standard Compass. | Force. | Heel. Leeway. | Height in inches. | her. Dry | Air, Wet Bulb. | ster at arface. | the Weather, by symbols. | Forms of Clouds, by symbols. | Prop. of Clear Sky, in 10ths. | State of the Sea |
| Hour. | Knots. | Tenths | | Thips Bead | Сошраса | For | Heel. | In me | Air | Air | W. S. | | | Pro | Sta |
| A. M. | | | | 16 | 16 | 1 | | 2 | | 10 | | 111 | W. | , , (| d |
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| Noon. | | | | 616 | , | 3-6 | | 29.840 | | | | " | 1, | 0 | " |
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| (| Cours | e and | | nade good since preceding noo | on by observations, | | | | knots. | | tenth | | | | |
| | | | | Latitude by D. R. | | | | | 0 | , | " | | | | |
| | Positi | on at | Noon: | Longitude by D. R. Latitude by observations of | | | | | 0 | , | " | | | | |
| | | | | Longitude by chronometer f | | ions of ⊙ | | | • | , | " | | | | |
| | *44 | | (| Latitude by | | | | | 0 | , | " | | | | |
| | Position | on at | | Longitude by | | | | | • | , | " | | | | |
| 1 | Positi | on at | 8 P. M. | Latitude by | | | | | 0 | , | " | | | | |
| | | | | Longitude by me, knots te | tenths per hour, setting to | the | | | 0 | | " | | | | |
| | | | ring the tir f the Com | me, knots te pass by Amplitude ⊙ observ | | | | | 0 | , | ,, | , | | | |
| | | | | pass by Amplitude \odot observ | | | | | 0 | , | " | , | | | |
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| | | | nded durin | ng the preceding 24 hours, | | | | | C | 10 | 0 gr | allons. | | | |
| | Water | | · towan | during the preced | ling 24 hours, | | | | 14 | La | R | " | | | |
| | | | | hand fit for use at Noon, g the preceding 24 hours, | | | | | 1 10 | ons 3º | 20 | lbs. | | | |
| | | | | and at Noon, | | | | | 7 | " 25 | 25 | - " | | | |
| | - | | | | | | | | | - | | | | | |
| | | | | 1/8,18 | 8/8 | 1 | | | | | | , , , | a/, | 2 | d |
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| P. M. | | | | 6 16 6 | | 7+6 | | 29790 | 319 | 78 | | 101 | 1 | 0 | 1 |
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under the command of Comminances J. J. Jenney, U. S. Navy, Friday March 94, 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Junewers and Cutif 4 a.M. rain Light airs from 16. C. Coed. Bless harase book a rainey Light to gratte brug frout the 894616 blear hawse. Received for issue to chard 11614 threach frest vegetables aud 93 lhs Gread. Jos. F. Jechany Troue 8. a M. ho Mexidean Gentle to fresh buese from 626 Quit reward of ten ther to U.S. Consulate for the apprechension & Delivery of I. Link Jais absule without leave letear harves. Low Meritien to H. P. Cusing Court boulound rais hegoi first park garily to stiff breeze in wer Derats squalls 1st back light airs back hair. There was slever engaged in bight dest. Conssien haise at end of water. Allow stone Jesus Jour for al yards at sunset. Grass in hairs startons Jones & J. The Missing he Ousign C. 1.16 rais. bold lealing fourt, light ain fine west afternand. Cross in hural. Queign 4 91 Examined and found to be correct. D.D. Gallowalf (4)

LOG of the United States Steamer "Essel", 3 Rate,

| Honr. | Knots. | Tenths. | Reading of Patent Log. | Cottres STEERED Standard Coppass. | WIND. Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. att/d. Temperatur | State of | Forms of Clouds, by symbols. | Prop. of Clea Sky, in 10ths | State of the Se |
|-------|--------|---------|------------------------|-----------------------------------|---------------------------------------|--------|-------|---------|-------------------------------------|----------|------------------------------------|--------------------------------|-----------------|
| A. M. | | | | Why of | west | 1 | | | 29.80655010 | ocal | auguind | 0 | d |
| 2 | | | | raish | 4 | 1 | | | 29.81555049 | " | " | 01 | 1, |
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| 4 | | | | W.6/16, | , | 1 | | | 2981041918 | sco | , | 6 | , |
| 5 | | | | W by 9 | , | 1 | | | 2980524948 | bey. | 1 | 6 | , |
| 6 | | | | wish | " | 1 | | | 3982534914 | " | cis | 5 | 1 |
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| 11 | 37.4 | | | M. W. by W. | " | 2 | | | 5993545148 | 1 | 1 | 2 | 1 |
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| Course and distance | made good since preceding noon by observation | ns, | knots. | | tenths. | |
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| | (Latitude by D. R. | | ۰ | , | " | |
| | Longitude by D. R. | | • | , | " | |
| Position at Noon: | Latitude by observations of ⊙ | | | , | " | |
| | Longitude by chronometer from Forenoon C | Observations of ⊙ | • | , | " | |
| | (Latitude by | | • | , | " | |
| Position at 8 a. m. | Longitude by | | 0 | , | " | |
| | (Latitude by | | • | , | " | |
| Position at 8 P. M. | Longitude by | | • | , | " | |
| Current during the t | | etting to the | | | | |
| | | | 0 | , | " | |
| | mpass by Amplitude o observed at Sunrise, sh | rps nead | 0 | , | ,, | |
| Variation of the Con | npass by Amplitude ⊙ observed at Sunset, | • | | | | |
| Variation of the Con | npass by Azimuth ⊙ observed at | " | 0 | , | " | |
| Variation of the Con | npass by Azimuth ⊙ observed at | " | • | 1 | " | |
| Water expended dur | ing the preceding 24 hours, | | · · | 150 | gallons. | |
| Water | during the preceding 24 hours, | | | | " | |
| Water remaining on | hand fit for use at Noon, | | 1 | 00 | 0 " | |
| | ng the preceding 24 hours, | | 1 to | ns 5 9 | O lbs. | |
| Coal remaining on h | and at Noon, | | 5 | 18 | 75 " | |
| | | | | / | | |

| P. M. | | 1 1 | V M | | | , | | | 1 |
|-------|----|----------|----------|---|------------------|-----|----------|----|---|
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| Mid. | 11 | Coff. | 0, 100. | 1 | 1 29 99 00 21 10 | " | " | | |

under the command of C RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Doumences and Cutil Hal Oaircast and cloudy entil last haur when parenther cleaned to fair Joggy over land. I niggling rain first three hours int ain from which lorse in hunce starboard chain on hat if rolling earily to underate ground seally Lartly cless hazil Fight airy francy loves. at 6. the Truckeum of war Trungues, left the harber thuf Eugh Stevens by acid Eugh Clesgrave left the ship bu his day leave Secrato for issue 93 lbs fresh head. bross us have sharboard chain su tals. rell of a. Tro, Mexisian. Misign Wy 7 10 Parely clear hazy, light Origzly occasionally Idout cur cus, shi went . Light ain to breize from west. aired hedding. Gleand hairse. Cauting us steerage country. at 10 30 shortened sail Those wasterner engaged in Engris Defet. Beceived a 1/6 of a cord of firewood out of Offices I I'M I' Woef carles ho, announce the death of Que peros Williams. Cackfieles yard and hay quagted colon at 2 10 evict growing quitral Wolf in meyory of Compers Williams of growing leleas house Proceed of Existing to the Surrant weather Light being from the win Joseph U.S.C. buy from Hares to H. How. To Falch & 2, returned from leads. lelens hawse. clear coulded pleasant bealunging three pour sudden brug from OME Teleas hawse Examined and found to be correct. Con Gallowayy Navigator.

LOG (of the United States, Iteaunes, Skelf, 3 Rate,

| | | | Reading | COVESES STEERED | WIND. | | | | BAROMET | | | | | State of | Forms of | Clear Oths. | he Sea. |
|-------|--------|---------|---------------------------------------|--------------------------|-----------------------------------|--------|-------|---------|-------------------|-----------------|-------------------|-------------------|---------------------|-----------------------------|---------------------|--------------------------------|-----------------|
| Hour. | Knots. | Tenths. | of Patent Log. | Courses STEERED Confess. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. att'd. | Air, Dry Bulb. | Air, Wet Bulb. | Waterat Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Clea Sky, in 10ths | State of the Se |
| A. M. | | | | w ful | balu | 0 | | | 29.90 | 48 | 45 | 46 | | b.z. | ume | 10 | d |
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| Noon. | | | | 96. | 96 | / | | | 30.00 | 55. | 53 | 50 | | " | " | 8 | 1 |

| Course and distance | made good since preceding noon by observation | ons, | knots. | | tenths. | |
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| | (Latitude by D. R. | | • | , | " | |
| | Longitude by D. R. | | • | , | " | |
| Position at Noon: | Latitude by observations of ⊙ | | 0 | , | " | |
| | Longitude by chronometer from Forenoon | Observations of ⊙ | • | , | " | |
| | (Latitude by | | 0 | , | " | |
| Position at 8 a.m. | Longitude by | | • | , | " | |
| | (Latitude by | | • | , | " - | |
| Position at 8 P. M. | Longitude by | | • | , | " | |
| Current during the | time, knots tenths per hour, | setting to the | | | | |
| Variation of the Co | ompass by Amplitude o observed at Sunrise, s | ship's head | | , | " | |
| Variation of the Co | ompass by Amplitude ⊙ observed at Sunset, | " | • | , | " | |
| Variation of the Co | ompass by Azimuth ⊙ observed at | " | | , | " | |
| Variation of the Co | ompass by Azimuth o observed at | 46 | ° | , | " | |
| Water expended du | aring the preceding 24 hours, | | 3 | 50 | gallons. | |
| Water | during the preceding 24 hours, | | | / | " | |
| Water remaining o | n hand fit for use at Noon, | | n | 00 | 2 " | |
| Coal consumed dur | ing the preceding 24 hours, | | ton | 121 | 10 lbs. | |
| | hand at Noon, | | 11 | 0 | | |

| P.M. | 1 | | | | , | |
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| 2 | 99w. | " | 3 | 2996565348 | , | 1 1/1 |
| 3 | " | " | 3 | 29.96555348 | | " " |
| 4 | d" | 2.11 | 3 | 299655349 | , | 4 6 1 |
| 5 | 9'w. | 4) 90. | 2 | 2993955149 | beg. | " " |
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| 8 | wish | 6 " | | 2993535349 | , | " 10 " |
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| 11 MG | East | " | 0 | 29.96-25048 | 1 | " 10 " |
| Mid. | aug) | " | | 29.90/5/60 18 | 1 | " 10" |

under the command of Command of Summay Der Sement, U. S. Navy,

Summay March 17th, 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Drummences and luckis 4 a. M have fort chain on hopo. Hazif around horizon. Cross in Levis Constry Trouvet to 8 a 7 Crown of the Secret bread bross in harves pour but briefly been free bread briefly the sof first briefly been free bread bross in harves, poil chain ou hap.

Trow S. a. M. to Maisian Dusign to Gother hours of the bless winds as Deeps and Many pour land baten firstly third hours light aim from J. G. W. other hours of 3 suntend and wickets of grand wind grand clarate as grand chip with the grand wind from from from for the formal selection of the formation of the less to bless and hope the formation of the less to bless and hope. os. F. Dechura, row of the for suy with lelear to pleisant. Fight, breeze from W. Gul, at Sunce survey sep ship leter hamst a growan office dame ou board of thaused the county Offices of this chip for fact. In being drunk us having liques is his bossessing Trough . The typings whave fort claim Dusign W. of the freshold

Examined and found to be correct.

To Sallow Life Navigator.

LOG of the United States Strawers Street, 3 Rate,

| Hour. | Knots. | Tenths. | Reading of Patent Log. | COURSES STEERED Ly Standard Compass. | WIND. Direction by Standard Compass. | Heel. | Leeway. | Height in inches. Ther. Temperature. | State of the Weather, by symbols. | Property of Clear Sky, in 10ths sees. |
|-------|--------|---------|------------------------|--------------------------------------|---------------------------------------|-------|---------|--------------------------------------|---|---------------------------------------|
| A. M. | | | | 16/16 | ball | 2 | | 29,97505018 | b.cz. | um 8 g |
| 3 | | 2000 | | 16:00 | , (| | | 20,95 tq tq tq | 1 | 9 8 1 |
| 5 | | 1 | | Tout | " (| 7 | | 299348 HAH6 | bof | un et 6 " |
| 6 7 8 | | | | Gash | , 0 | 7 | | 2995 18 446 | " | risaury of " |
| 9 | | | | 6.619 | Jours ! | / | | 30.00525250 | beg. | 161 |
| Noon. | | | | July 9 | Tout 1 | ' | | 3001540951 3000565402 | 1 | o'th 5 " |

| Course and distance made good since preceding noon by observations, | knots. tenths. | |
|--|---------------------------|--|
| (Latitude by D. R. | 0 , " | |
| Longitude by D. R. | 0 , " | |
| Position at Noon: Latitude by observations of ⊙ | 0 , " | 1 |
| Longitude by chronometer from Forenoon Observations of ⊙ | 0 , " | |
| (Latitude by | 0 / // | |
| Position at 8 a. m. Longitude by | 0 , " | |
| (Latitude by | 0 , , | |
| Position at 8 P. M. Longitude by | 0 , " | 1 |
| Current during the time, knots tenths per hour, setting to the | | |
| Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head | 0 , " | |
| Variation of the Compass by Amplitude ⊙ observed at Sunset, " | 0 , " | A STATE OF THE STA |
| Variation of the Compass by Azimuth ⊙ observed at " | 0 , " | |
| Variation of the Compass by Azimuth ⊙ observed at " | 00' " | |
| Water expended during the preceding 24 hours, | 350 gallons. | |
| Water Distilleduring the preceding 24 hours, | 150 " | |
| Water remaining on hand fit for use at Noon, | 500 " | |
| Coal consumed during the preceding 24 hours, | 1 tons 230 lbs. | |
| Coal remaining on hand at Noon, | 1 tons 230 lbs. 3 "1775 " | |
| | // | |

| P.M. | | | | | | , | 1 |
|------|-------------|----------|----------------|-------|-------|----|---|
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| 2 | 9. du | 99W. 2 | 29.98585450 | , | , | 8 | 1 |
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| 4 | 1.1 | 2 | 29.96 54 5451 | " | " | 10 | 1 |
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| 6 | W. by . 76. | loist 1 | 20.94 580652 | b.cz. | сищ | 1 | 4 |
| 7 | 16.6. | Calino | 29.94560505 | " | 4 | 9 | 1 |
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| 11 | west | , 0 | 299635350 | 1 | , | | |
| Mid. | (Colley) | , 0 | 29.99525250 | , | 1 | | |
| | | | 7.79 | 1 | | | 1 |

under the command of Communauder J. J. Securel, U. S. Navy, March 1214, 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Chain ou trops. Clear Hazy balew Session in house port From H to 8 Ge M Leas and Foggy over land Calin al files crossed zou at yard / and loosed suit to a bouling. Received in Pay Dept for issues to creed 9st elbs of bread. Elbow in harry park chairfour hop. From 8. Cell. to Meredian Ourge U, 916 Junique clear and Pleasant. Reget airs flow Tout & 994 Hazy ar spice Southers house, bross in house at und of egated Starbrary chair on top. at 8: 40 cleaned haves at 9:30 Jules Suil. Sent down roy al yards and cleaned ship for action, Then Writer at grueral quarters after which Lectured Suspected magazing and their room, from cockes. Fruit their in gird orders. of lesunnador placed & Coarles, Che, R. Doyle, CHA Wagherens Stars, in double pirous for tes days for being driver ou duty. As leaved a. Birgman, 18ta, feren confinement. at 8: fegue distilling Sear, hay as pleasant Light breeze from Flager to row Mexican to 4 M I. d. Exercised Mariness of rowing for one half hour Working from show in Engri Dept. Bone off weed for Fremany farsais Upurhiships. Expended, 12 Juns 29 f Mainly Sestetting Correct is hurde starboard chairs on tot. bleard hause. at sund nor sent down to gets yaget and mark. Lieux Colle huve. lelear hazy and pleasant leaden Distating Clear musing Co E.D. Lallogs as Examined and found to be correct.

1991555002

16.00

under the command of Communication J. J. Jewell, U. S. Navy, Just ay Harel 13th, 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Commences and rectiff a M. Ander. Situling to State of the State of th Trouve H fro. S. Cl. A bacu and light airs from the beleas hower of Medical sup house of Mande Received in Pay Dept 116/4/18 each of fresh beef Wargetable & 93ch bread. Jet The way Trown & a the Meridian light ain & buy from Earl to 9w. at 9.20 inspected crew at quarters " exercised Divisions as factours Having atons Maching ques; 1et Dia grat gues, 2. Dis Chations, 3. Die Riples, Powder Die Statings, Maximus Bayouch Express, at 10:01 called all hands crossed royal yards and expressed at sail Ories quaking all plain sail to royals, respiny topesails " furling. By order of the leaving Offices W. M. Fadder, Fais, was given fing days confinement on bread and water for obscently Espinsolones to offices of fore coulty. Russeas gunboat Bobs came in " harf mattet her copy. Sunt harde starboard chair on hop Littling. Thour of Onedias to H. Gartly clear with light haze blouds cir cum Wats. Oright Dunas eagather. Light Greeze from with. Such dingly shore and somether her for Mainting. Those revarkemen engaged in Engris Dept. a Cond & Turon Low articles in Gugis Dept. leandenneed 6 coal brighet gregominuted they to berr patro alea, dis for pike " Dis for Sif pips, which wer haprail halliars. Theelaced seating rail on pook Painting under these foreastif leleand have But sails of whale book 2/20 Citter Could Officer of Russias Gunboal "Boto" Carled. Ousign Wy rolle It ho. S. V. at secured sent down tolland af royal of aros af wahend light suit. Detating Clear hawle. letear harose. Examined and found to be correct. To Laceoway

LOG of the United States Steamers "Sseef", 36 Rate,

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| Hour. | Knote. | Tenths. | of Patent Log. | COURSES STEERED by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. att'd. | Air, Dry Balb. | Air, Wet Bulb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Clear Sky, in 10ths. | State of the Sea |
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| Course and distance made good since preceding noon by observations, | knots. tenths. |
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| (Latitude by D. R. | 0 / // |
| Longitude by D. R. | · , " |
| Position at Noon: Latitude by observations of ⊙ | · , ,, |
| | 0 , , |
| Longitude by chronometer from Forenoon Observations of ① | 0 , ,, |
| Position at 8 a. m. Latitude by | |
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| Position at 8 P. M. Latitude by | 0 / " |
| Longitude by | 0 , 11 |
| Current during the time, knots tenths per hour, setting to the | |
| Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head | 0 , " |
| Variation of the Compass by Amplitude ⊙ observed at Sunset, " | 0 / // |
| Variation of the Compass by Azimuth ⊙ observed at " | 0 , , |
| Variation of the Compass by Azimuth ⊙ observed at " | ° b' " |
| Water expended during the preceding 24 hours, | 350 gallons. |
| Water Suitiles during the preceding 24 hours, | 150 " |
| Water remaining on hand fit for use at Noon, | 350 gallons. 2800 " |
| Coal consumed during the preceding 24 hours, | tons 1840 lbs. |
| Coal remaining on hand at Noon, | "1845 " |
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| P. M. | YA | Y / A | 2 | | | | | 1 |
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under the command of Communication J. J. Jenne, U.S. Navy, Weblinson ay March 14th, 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Communication Centric of a Mour when light airs from 168.

Trow of the 8 a M. Suring Colons Received of sieus 9 Best Just bread. Clevous in hawlestartound chain ou hate at I sclock crossed takguit "I rayal yard! Guings wigh generally dear bright whang blouds cis and stratus. Fight airs ho they from South to So. at 8: 20 coal lighter came alongside. began coaling at 830. a Russian officer from Bots" carled to inform our Officer of beseating of period of quairring for Granew Eugens. Twe master colors at 8 40. Locut the Guarters for wenter but this peching at 900, after which Grieles, as factores 1st. 2: 4 3. Divisions front Jun Sustruction, Poroder Division Shapious, Marines Qual arms. Exprised wats under sail land office. haid an official visit to Russias Junbout Bobs" american leaunes. my 16:6 Euseyr Vainting under J. J. Forcestell as outside of Dingry Close in harve Head received at end of evated of the tons of coal ON H. Comporting row Meridian to of J. M Dusign W. J. M. Setear and pleasant. Day oard land. Gentle to light bring from to no I qually at 1: 30 Cleared elbord in harase. Trinished graling ship having receivegen all 25 230 hours of authracits coal. The pip for the crim of Fyudsenan John Sincery. Received from Robe Hospital Justeany Olea, Clear harvier. It Joseph Jones Queign GJ/ Cartly clear with circum & str clouds, Days of coed. Light to moderate breeze in weaderate squalls from North Guel Ooior light yant and bent light sails at sunset. bleky harde. July W 16 The Midnight believe Thanke. Teal Jight airs from Hours Granes thirs hour J. S. S. Spirit Examined and found to be correct. Loo Lallo way

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| Hour. | Knots. | Tenths. | Log. | Thiles House | Direction by Standard Compass. | Force. Heel. | Leew | Height in inches. | att'd. | Bulb. Air, Wet | Bulb. Waterat Surface. | by symbols. | sym0018. | Prop. | State |
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| | | | ring the tin | | enths per hour, setting to | | | | | | | | | | |
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| | Varia Varia Varia Water Water Water Coal | ation of rexper | f the Comp f the Comp f the Comp nded during | pass by Azimuth ⊙ observed pass by Azimuth ⊙ observed g the preceding 24 hours, during the preced and fit for use at Noon, the preceding 24 hours, | at " | | | | 2. | Be | 50 8 | yallons. "" " " " " " " " " " " " " " " " " " | | | |
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| | Varia Varia Varia Water Water Coal | ation of rexper | f the Comp f the Comp f the Comp nded during | pass by Azimuth ⊙ observed pass by Azimuth ⊙ observed g the preceding 24 hours, during the preced and fit for use at Noon, the preceding 24 hours, | at " | 2-3 | | 30.10 | 25 | tons " | 50 | gallons. " " " " " " " " " " " " " " " " " " | cincuma | 60 | |
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| P. M. 1 2 3 | Varia Varia Varia Water Water Coal | ation of rexper r r rema | f the Comp f the Comp f the Comp nded during | Dass by Azimuth ⊙ observed bass by Azimuth ⊙ observed bass by Azimuth ⊙ observed bass by Azimuth ⊙ observed by the preceding 24 hours, and fit for use at Noon, the preceding 24 hours, and at Noon, Manager | at " | 2-3 2-3 3 | | 30,10 | 25 25 49 4 50 11 | 18 de | 50 8 | gallons. " " " " " " " " " " " " " " " " " " | " | 606546 | |
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Commander J. F. Lewell, U. S. Navy, Thursday Harch 10th, 1888. under the command of RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Dominences and lentil Ha. Quring first hour figur Borch. Kell hive hours light airs from Jeul a John row of to. V. al Jewall cles bright and cold. Hage Clouds cis cuin With. Fight airs from M. W. Receives for issues to creed 118 4/4 lbs each of first heef by vegetables & 95 ets filet byad. brossed light yards Whorsed sail to a bowling at 805. leleas harde. how & a M to Maridian Gusign with Fair and coal executes. Light buy fearer to Wentil last hour when shifted to Mouth. at 9. 30 dunstered at quarter and expressed divisions as follows. 1 t Did. Hacking Juns, 2. 18id, gras Jus; 3. W Paroon Dis Stations. at 8:55 Shortened Laif and at 10: Defricised at Sail Onice. Beforder of lexing Offices Clacid and red Spains, Michel, well sentile charge to lear thanks action. Trous Hair word Light to grant brugg flore of the exgept third hour when fight belige from 99 cd blear hourse. Leux marines out to practice at vars is 2. cutter Krithetteny cutting hailer. (os. A. Courage) From of the f. plens and pleasant, Land over land. Truth to light light Lails. blear, hawse. Sent Bougelight yards bunbend Trough the High airs from the grant fact hairs cohew calul. of Freghtish Trent a. La Gallow gy Kul Navigator. Examined and found to be correct.

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| Course and distance | made good since preceding noon by observation | ns, | knots. | tenths. | |
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| | Longitude by D. R. | | . 0 | , " | |
| Position at Noon: | Latitude by observations of ⊙ | | 0 | , ,, | |
| | Longitude by chronometer from Forenoon C | Observations of ⊙ | 0 | , , | |
| | (Latitude by | | 0 | , ,, | |
| Position at 8 a. m. | Longitude by | | • | , ,, | |
| | (Latitude by | | 0 | , ,, | |
| Position at 8 P. M. | Longitude by | | • | , " | |
| Current during the | time, knots tenths per hour, s | etting to the | | | |
| Variation of the Con | mpass by Amplitude ⊙ observed at Sunrise, sh | ip's head | • | , ,, | |
| Variation of the Con | mpass by Amplitude ⊙ observed at Sunset, | " | 0 | , ,, | |
| Variation of the Cor | mpass by Azimuth ⊙ observed at | " | • | , ,, | |
| Variation of the Con | mpass by Azimuth o observed at | u | 0 1 | , ,, | |
| Water expended dur | ring the preceding 24 hours, | | 30 | gallons. | |
| Water | during the preceding 24 hours, | ,k | | " | |
| Water remaining on | hand fit for use at Noon, | F | 21 | od " | |
| Coal consumed during | ng the preceding 24 hours, | | tons | " 1480 lbs. 895 " | |
| Coal remaining on h | and at Noon, | | 24 " | 895 " | |
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| Mid. | 16 E. 6. | 1661 | 3019 52 49 46 | , , 3, |
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under the command of Sommander J. F. Secure , U. S. Navy, Friday Harel 16th, 18/8. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Communices and Centil H a / airs from W. H. W. land harf belear houvel. To Jones Trouve If the & a for hay, cold baller at light airs from the Id 95 ets, fresh bread. at of 50 crossed typet and rul al yard. Clear house. Broke out main how proparatory to cleaning bilger most From & a A to Meridian hay to the Light ain from & Streamy 13,5 2, strain 135. Boar off were tiget fard by weart rakes, 166 few 334 manila. Hasking wur hammer clother Finished seroing out, small stores. Jour Jon to 4 Of seul Comple I Carety clear, hazy as pleasant bally whigh airs from 698 and Tours. By river of leaving Officer 9 & lewwingham Robo was Specedies dauble would be award further action for being about fever the ship evirhout leave we returning to the same greent. Tail lughers going at work ou wind hanguack clother Workinen from short at work is Gugn's DEpt, lileas harver. Experied Marines at rowing. Guily Hoggeth 16 Landy Hardy cloudy Dazy Light ain flow South Clien Legis Westerly From Gast to the Seleis hairse Heas and Light airs Whiley Curing West Examined and found to be correct. De Salloway

LOG of the United States Oteanner Casa Front Rate,

| | | | Reading | | WIND. | | | | BAROMETER | TEN | IPERA' | TURE. | State of | Forms of | Tear ths. | e Sea. |
|-------|--------|---------|----------------|----------------------|-----------------------------------|--------|-------|---------|-----------------------|-------------------|-------------------|----------------------|-----------------------------|---------------------|---------------------------------|------------------|
| Hour. | Knots. | Tenths. | of Patent Log. | by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. The | Air, Dry Bulb. | Air, Wet Bulb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Clea Sky, in 10ths. | State of the Sec |
| A. M. | | | | E by B | N6 | +4 | | | 30195 | 49 | 45 | | £,c,y,3, | Eur Min | 12 | 0 |
| 2 | | | | 76/8 | " | 2 | | | 30.1950 | 149 | 46 | | 0,0,3. | " | | " |
| 3 | | | | ME by & | <u>"</u> | 1 | | | 30.195 | 249 | 46 | | 11 | 11 | 0 | " |
| 4 | | | | 766 | Cach | 2 | | | 30175 | | - 5 | | " | 11 | 0 | " |
| 5 | | | | 71 8 /2.6 | " | 2 | | | 30/650 | 246 | 44 | | " | " | 0 | 11 |
| 6 | | | | 6766 | 11 | 2 | | | 30145 | 040 | 44 | 4 | 0.0,3.2 | 11 | 0 | " |
| 7 | | | | 6 96 6 by 6 | " | 2 | | | 30.145 | 48 | 45 | | " | " | 0 | " |
| 8 | | | | " " | " | 2 | | | 30.135 | 48 | 46 | | " | " | 0 | " |
| 9 | | | | " 0 " | 26 € | 2 | | | 30.115 | 148 | 46 | | " | " | 0 | 4 |
| 10 | | | | 6966 | . / | 3 | | | 30.09 50 | | | | 0,0,3,4 | " | 0 | " |
| 11 | | | | 11 11 | " | 3 | | | 30.06 51 | | | | " | " | 0 | " |
| Noon. | | | | " " | 16 6 hy & | 3 | | | 30.03 5 | | | | 0,0,2. | " | 0 | " |

| Course and distance made | good since preceding noon by observa | tions, | knots. | | tenths. | |
|---------------------------|--------------------------------------|---------------------|--------|----|----------|--|
| (Lati | tude by D. R. | | 0 | , | " | |
| Lon | gitude by D. R. | | . 0 | , | " | |
| Position at Noon: { | tude by observations of ⊙ | | | , | " | |
| Lon | gitude by chronometer from Forenoo | n Observations of ⊙ | • | , | " | |
| (Lati | tude by | | • | , | " | |
| Position at 8 a. m. | zitude by | | • | , | " | |
| | tude by | | | , | " | |
| Position at 8 P. M. | gitude by | | | , | " | |
| Current during the time, | | r, setting to the | | | | |
| Variation of the Compass | by Amplitude ⊙ observed at Sunrise | , ship's head | • | , | " | |
| | by Amplitude ⊙ observed at Sunset, | | o | , | " | |
| Variation of the Compass | by Azimuth ⊙ observed at | " | • | , | " | |
| Variation of the Compass | by Azimuth ⊙ observed at | " | • | , | " | |
| Water expended during th | e preceding 24 hours, | | مع | 50 | gallons. | |
| Water | during the preceding 24 hours | , | | | " | |
| Water remaining on hand | fit for use at Noon, | | 17 | 50 | " | |
| Coal consumed during the | preceding 24 hours, | | 17 ton | 18 | 40 lbs. | |
| Coal remaining on hand at | Noon, | | 23 " | 12 | 95 " | |
| | | | | / | | |

| P. M. | 2 | | | | | 1 | ora. | elegan |
|-------|-----------|---------|------|----------------|---------|----------|------|--------|
| 1 | 876 E. | 6766 | 3 | 29.97 545250 | 000 | amminely | 9 | 0 |
| 2 | " | oś' | -3 | 7993 5453 50 | oc | " | 11 0 | 0 |
| 3 | <i>"</i> | Cut | 2 | 29.89575652 | 6 C | 11 | 11 | / |
| 4 | & by 96 | 211 | 2 | 29.86 565552 | ii | 11 | 4 | 2 |
| 5 | 76 6 by 9 | 6.0.6 | 2 | 79.81 5762 53 | " | " | " | 2 |
| 6 | 76 6 | " | 1 | 29.80 575354 | 0.0.44 | " | 1 | 0 |
| 7 | mo.m | Mech | 1-3 | 29.80 505703 | ocur | . " | " | 0 |
| 8 | 76.€ | 76.6 | / | 29.80 575755 | " | " " | " | 0 |
| 9 | Day Th | | 0 | 29.84585755 | O.C. r. | " | " | 0 |
| 10 | m Ly 76 | W by 76 | 3-5 | 29.84575653 | 4.09.1. | Jun str | " | 5 |
| 11 | "," | 1 | 1-5 | 49.84 57 5 653 | 4.6.9. | cum | 4 | 7 |
| Mid. | " | 11 | 3-01 | 29.85075 652 | " | " | 11 | 7 |
| | | | 111 | | | | | |

under the command of Commander T. F. Javill , U. S. Navy, Daturday March 14th, 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Commences sand until 4 acts. reboso. Nazy. low. Claude lum sand winds. Light ain to huderate bruge in light squalls from 76.6, shipling to Each last Lour, Char Lawre From 4 to 8 airs Claudy rainy last three hours, Light weest from Back Luck Vo. D. Hum Leaving Cowards lus of wately light to gentle brouge from 46. " Wille. By order of the lound of fier & laced & F. Comming hair, Lop, in Confinewent on brian and water for five days for heaving skip wethout Cermission and returning our board orinx lales places of Space, makely, in Souble irons for ten daye for bring under the influence of legor on book ship. By order of the Commed afficier released F. Wallace, C. Tap, JAryly, their times having expired. G. F. Commingham, Loo, and A Apain Jose the flaces on the respected lie! for three months from this Sate rand F. Mallace, G. Top, Ed & Loyle, Cofford and Mr. G. Hour, S. Alc, for three months from Manch 8th, Chen hawe. Learning slightly afterwards. Clouds from Paul James gentle breeze from Co. M. E. 1 st bank, Lalling to light borege from East Lany ground swell. Deut liberty bank, bound, shefted hammorks. Clear hames. d'rous 4 to 8 PM. lengto, 16. 08. 16. Overcuet and musty with wain lack park legal ains to gentle bruge from E. M. E. to Ment. Recured in Many alon dept one lomparing watch. Clear, hause, an american skip lame in and anchored at Junet, chief lengineer 9 m. I tivers, left the ship on Seven days hope of absences Chit blands lum str & Himb after 1st was. balun 1ch hour, raining finish to moderate bruge in moderate oquale from m. by of afterwards. long grown Burle. D'eix violling laxily. Grows in Venuve. Euges 6. D. H. Examined and found to be correct. Longalloway Lient & Navigator.

LOG of the United States Dearwest Sure Japan

Fro Rate,

| | | | Reading | | WIND. | | | | BAROME | | | | | State of | Forms of | Hear this. | e Sea. |
|-------|--------|---------|----------------------|----------------------|-----------------------------------|--------|-------|---------|-------------------|--------------|-------------------|-------------------|----------------------|-----------------------------|---------------------|---------------------------------|--------------|
| Hour. | Knots. | Tenths. | of Patent Log. | by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. att'd. | Air, Dry Bulb. | Air, Wet Bulb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Clea Sky, in 10ths. | State of the |
| A. M. | | | | m. 42. m | M. 76. M. | 3-5 | | | 29.83 | 56 | 55 | 52 | | 6.0.8 | any | 8 | 8. |
| 2 | | | | // | " | 9-4 | | | 29.86 | 56 | 54 | 51 | | " | 11 | 8 | 4 |
| 3 | | | | " | " | 2-3 | | | 29.88 | | | | | " | " | 8 | So. |
| 4 | | | | " | . " | 2 | | | 29.89 | 56 | 53 | 51 | | | " | 8 | " |
| 5 | | | | M. D. M. | A. A. M. | 2 | | | 29.92 | 07 | 53 | 51 | | 6.C. | " | 7 | " |
| 6 | | | | m. Ly . n. | " | 1 | | | 29.93 | 1000 | | | | " | Gun | 5 | " |
| 7 | | 200 | | D. D. M. | " | 1 | | | 29.95 | | | | | " | -11 | 0 | " |
| 8 | | 100 | | // | " | 1 | | | 29.97 | | | | | " | "11 | 4 | " |
| 9 | | | | A.M. by A. | " | 2 | | | 29.91 | | | | | " | Cun | 5 | 8 |
| 10 | | - | | m. s. m. | " | 2 | | | 29.96 | | | | | " | " | 4 | " |
| 11 | | | | 10. M. | Mr. by D. | 2 | | | 29.96 | | | | | , | " | 4 | 4 |
| Noon. | | | | m. D. M. | // | 2 | | | 29,96 | | | | | .11 | + "inul | 2 | " |

| Course and distance | made good since preceding noon by observations, | | knots. | t | enths. | |
|---------------------|--|-----------|--------|-----|----------|--|
| | (Latitude by D. R. | | 0 | , | " | |
| | Longitude by D. R. | | | , | " | |
| Position at Noon: | Latitude by observations of ⊙ | | • | , | " | |
| | Longitude by chronometer from Forenoon Observati | ions of ⊙ | • | , | " | |
| | (Latitude by | | 0 | , | " | |
| Position at 8 a. m. | Longitude by | | • | , | " | |
| | (Latitude by | | • | , | " | |
| Position at 8 P. M. | Longitude by | | • | , | " | |
| Current during the | | the | | | | |
| | mpass by Amplitude ⊙ observed at Sunrise, ship's hea | | . 0 | , | " | |
| | mpass by Amplitude ⊙ observed at Sunset, " | | | , | " | |
| | mpass by Azimuth ⊙ observed at " | | | , | " | |
| | mpass by Azimuth ⊙ observed at " | | | , | " | |
| | ring the preceding 24 hours, | | | 350 | gallons. | |
| Water | during the preceding 24 hours, | | | | " | |
| | hand fit for use at Noon, | | / | 43 | 0 " | |
| | ng the preceding 24 hours, | | tons | 160 | So lbs. | |
| Coal remaining on l | | | 22 " | 18. | 75 " | |
| | | | 22 | -/ | | |

| P. M. | | | | | | 1 | | | |
|-------|---|--------------|----------|------|----------------|--------|---------|---|---|
| 1 | | D. D. M. | A.D. M. | 2 | 29.935855-52 | L.e.g. | Cir | 2 | 8 |
| 2 | | D. M. Ley D. | D. M. | 2 | 29.90 59 5652 | " | | 3 | " |
| 3 | | Mr. ley. D. | " | 2 | 29.90 59 56 52 | " | " | 2 | " |
| 4 | | m. by. 76. | Much | 2 | 29.90 59 56 52 | " | de Cene | 1 | " |
| 5 | | .4 | " | 2 | 29.88 59 56 52 | " | " | 1 | " |
| 6 | | " | " | 2 | 29.8858 5552 | " | " | 2 | 3 |
| 7 | | m. sm | m. J. M. | 2. / | 29.88595653 | " | " | 2 | " |
| 8 | | D. M. | D. M. | / | 29.88 58 55.52 | " | Wiesele | 0 | " |
| 9 | , | M. A.M. | 11 | 2 | 2991615251 | o.c.y. | " | 0 | " |
| 10 | | m by %. | " | 2 | 29.90 59 5251 | " | " | 0 | |
| 11 | | Mr. ley 2. | " | 1 | 29.9058 52 51 | " | 16 | 0 | |
| Mid. | | D. H. | " | 2 | 29.9058 53 50 | | " | 0 | " |
| | | | | 11 | 1 12'11 | | | | - |

under the command of Sommander J. J. Lewell, U. S. N. Dunday Harely 18 7, 1888. , U. S. Navy, RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Commences Ed hutil 4 act in Aqualls with last hour, blur have. It formis Pantly clear, Clearant light airs and briege from S. S. M. Received for were in Pay Alph 118 /4 the Just Fre & Vegatable, ES 95 the Juste bread. P. Torphy, O, Mb, returned & rout leberty light land accounted the I & Single placed Tuis in Souble irons to await the acknowled of the Loumanding affices: 6 you in Lawre stands chairs orto tak. Moderate Swell from D.E. ~ Miltoggatt lunger 6. S. X. From 8 aces wetel Merideals Partly Clear with lune str & Hink Clouds accarriouly Jugat Bleasant, light breeze from D. D. M. to M. Ly D. Casey ground wellel, Duch rewords I tollier, 1. Cd, I F. Genety D.A. 1. C. & 6. J. bruboy, Om, Commanding Officials sufferested ship selit Grew at quarters at 930. Deut as officers to board The Laureniears ship Ganktoops. The fallowing men were brought off by this & Police of hours over time; Is by order of Commanding Officer Claced winder Sentry Clarge Lutil Arber, A. Lampbell. Den, J. F. Servity D. A. 10. J. Dolbier, 1 et, & 6.2. Coultry Fin. Grace its Euroce. ACToundstone. Theredears to 4 MR, Seather, Hazy, high briege from De of me grasualy shepping to Meet, at 310, him owine Derdice. Sent liberty Early ashore. Grave in lineare whos deares on the Fig. Menges 16. d. 1 Partly Clear the Leave When avercast Cir Com An Estypind. Hazy + look m. J. Me Falders, D. A. C. El & J. Linoke 1 CA, left the & auther while ou duty van mumbers of the Corps with aut Derminion and in Sunsbedeines of the orders for the apprehension and Silvery or Soars of m. I me traden d. A. J. C. E. H. S. Cloudy. Nazy aver land digit ain from Examined and found to be correct. To Galloway neutral Navigator.

LOG of the UNITED STATES Olinner Sup Marres in the Sunbar of Suba Japan's

Frate,

| | | | Reading | | WIND. | | | | BAROMETER. TEMPERATURE. | State of | Forms of | Clear Oths. | he Sea. |
|-------|--------|---------|----------------------|----------------------|--------------------------------|--------|-------|---------|--|-----------------------------|---------------------|----------------------------------|-----------------|
| Hour. | Knots. | Tenths. | of Patent Log. | by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. Ther. Bully. Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Clear Sky, in 10ths. | State of the Se |
| A. M. | | | | m. s.m. | Calux | 0 | | | 2990595351 | o.c.g. | Ninh | 0 | 6 |
| 2 | | | | " | m. s. m. | - | | | 2988 585351 | 1 | " | 0 | 4 |
| 3 | | | | m by 78 | Mr. by M | 2 | | | 29.87 5753 50 | " | Minh | 0 | 11 |
| 4 | | | | | , | 3 | | , | 29840 63350 | " | 11 | 0 | 4 |
| 5 | | | | // | " | 3 | | | 29.84 555250 | " | " | 0 | 1, |
| 6 | | | | , 11 | " | 3 | | | 29855550250 | " | " | 0 | ", |
| 7 | | | | Hant | 16 ants | 3 | | | 19.87 56 52 49 | n.c.g. | 0." | 0 | 4 |
| 8 | | | | No by m | -11 | 3 | | | 29.89 5449 46 | " | Cun | / | " |
| 9 | | | | Harth | " | / | | | 2995554945 | " | Minh | 3 | " |
| 10 | | | | no by m | " | / | | | 299456 50 46 | ae, | mind | 13 | 1, |
| 11 | | | | My M | | 1 | | | 299853-50 46 | . // | " | 0 | 1, |
| Noon. | | | | m. 76. m. | | / | | | 39.9655 51 46 | Se. | " | 3 | 4 |

| Latitude by D. R. Congitude by D. R. Congitude by Observations of ○ Congitude by observations of ○ Congitude by chronometer from Forenoon Observations of ○ Congitude by Chronometer from Forenoon Observations of ○ Congitude by Chronometer from Forenoon Observations of ○ Congitude by Current during the time, Knots tenths per hour, setting to the Variation of the Compass by Amplitude ○ observed at Sunsies, ship's head Congitude Observed at Sunset, Congitude Observed at Congitude Observed Observed at Congitude Observed Observed Amplitude Observed Amplitude Observed Amplitude Observed Observe | Course and distance | made good since preceding noon by observat | tions, | knots. | | tenths. | |
|--|----------------------|--|-------------------|--------|-----|-----------|---|
| Position at Noon: Latitude by observations of ⊙ Longitude by chronometer from Forenoon Observations of ⊙ Longitude by chronometer from Forenoon Observations of ⊙ Longitude by Position at 8 a. m. Latitude by Longitude by Longitude by Longitude by Longitude by Current during the time, knots tenths per hour, setting to the Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head Variation of the Compass by Amplitude ⊙ observed at Sunset, Variation of the Compass by Azimuth ⊙ observed at Water expended during the preceding 24 hours, Water during the preceding 24 hours, Water remaining on hand fit for use at Noon, | | (Latitude by D. R. | | 0 | , | " | |
| Latitude by observations of ○ Longitude by chronometer from Forenoon Observations of ○ Position at 8 a. m. Latitude by Longitude by Longitude by Position at 8 P. M. Latitude by Longitude by Current during the time, knots tenths per hour, setting to the Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head Variation of the Compass by Amplitude ⊙ observed at Sunset, Variation of the Compass by Azimuth ⊙ observed at Water expended during the preceding 24 hours, Water during the preceding 24 hours, Water remaining on hand fit for use at Noon, | | Longitude by D. R. | | • | , | " | |
| Position at 8 a. m. { Latitude by Longitude by Longitude by Position at 8 P. M. { Latitude by Longitude by Longitude by Longitude by Current during the time, Knots Longitude by Current during the time, Variation of the Compass by Amplitude © observed at Sunrise, ship's head Variation of the Compass by Amplitude © observed at Sunset, Variation of the Compass by Azimuth © observed at Variation of the Compass by | Position at Noon: | Latitude by observations of ⊙ | | | , | " | |
| Position at 8 a. m. { Longitude by Longitude by Solution at 8 P. M. } Latitude by Longitude by Current during the time, knots tenths per hour, setting to the Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head Variation of the Compass by Amplitude ⊙ observed at Sunset, " Variation of the Compass by Azimuth ⊙ observed at " Variation of the Compas | | Longitude by chronometer from Forenoon | Observations of ⊙ | • | , | " | |
| Longitude by | | | | . 0 | , | " | |
| Position at 8 P. M. \{ Latitude by \\ Longitude by \\ Current during the time, knots tenths per hour, setting to the \\ Variation of the Compass by Amplitude \(\circ \) observed at Sunrise, ship's head \(\circ \) '' Variation of the Compass by Amplitude \(\circ \) observed at Sunset, \(\cdot \) '' Variation of the Compass by Azimuth \(\circ \) observed at \(\cdot \) '' Variation of the Compass by Azimuth \(\circ \) observed at \(\cdot \) '' Water expended during the preceding 24 hours, \(\cdot \) '' Water remaining on hand fit for use at Noon, \(\chi \) '' Water remaining on hand fit for use at Noon, \(\chi \) '' | Position at 8 a.m. | Longitude by | | • | , | " | |
| Position at 8 P. M. \ Longitude by Current during the time, knots tenths per hour, setting to the Variation of the Compass by Amplitude © observed at Sunrise, ship's head Variation of the Compass by Amplitude © observed at Sunset, " Variation of the Compass by Azimuth © observed at " Variation of the Compass by Azimuth © observed at " Variation of the Compass by Azimuth © observed at " Variation of the Compass by Azimuth © observed at " Variation of the Compass by Azimuth © observed at " Water expended during the preceding 24 hours, " Water remaining on hand fit for use at Noon, Water remaining on hand fit for use at Noon, Water statement Water remaining on hand fit for use at Noon, Water statement Water remaining on hand fit for use at Noon, Water statement Water state | | (Latitude by | | • | , | " | |
| Current during the time, knots tenths per hour, setting to the Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head ° ' '' Variation of the Compass by Amplitude ⊙ observed at Sunset, " ° ' '' Variation of the Compass by Azimuth ⊙ observed at " ° ' '' Variation of the Compass by Azimuth ⊙ observed at " ° ' '' Water expended during the preceding 24 hours, " ° ' '' Water during the preceding 24 hours, " ° ' '' Water remaining on hand fit for use at Noon, " ° ' '' | Position at 8 P. M. | | | • | , | " | 1 |
| Variation of the Compass by Amplitude ⊙ observed at Sunset, " Variation of the Compass by Azimuth ⊙ observed at " Variation of the Compass by Azimuth ⊙ observed at " Variation of the Compass by Azimuth ⊙ observed at " Variation of the Compass by Azimuth ⊙ observed at " Water expended during the preceding 24 hours, Water during the preceding 24 hours, Water remaining on hand fit for use at Noon, // | Current during the | | r, setting to the | | | | |
| Variation of the Compass by Azimuth ⊙ observed at " Variation of the Compass by Azimuth ⊙ observed at " Variation of the Compass by Azimuth ⊙ observed at " Water expended during the preceding 24 hours, Water during the preceding 24 hours, Water remaining on hand fit for use at Noon, // CO " | Variation of the Con | mpass by Amplitude ⊙ observed at Sunrise, | ship's head | | , | " | |
| Variation of the Compass by Azimuth ⊙ observed at Variation of the Compass by Azimuth ⊙ observed at Water expended during the preceding 24 hours, Water during the preceding 24 hours, Water remaining on hand fit for use at Noon, // | Variation of the Con | mpass by Amplitude o observed at Sunset, | " | 0 | , | " | |
| Water expended during the preceding 24 hours, Water during the preceding 24 hours, Water remaining on hand fit for use at Noon, | Variation of the Cor | mpass by Azimuth ⊙ observed at | " | • | , | ,, | |
| Water during the preceding 24 hours, Water remaining on hand fit for use at Noon, // CO " | Variation of the Con | mpass by Azimuth O observed at | " | • | , | " | |
| Water during the preceding 24 hours, Water remaining on hand fit for use at Noon, // CO " | Water expended dur | ring the preceding 24 hours, | | | 39 | ogallons. | |
| Water remaining on hand fit for use at Noon, // co " | | | | | | | |
| Coal consumed during the preceding 24 hours, tons 1480 lbs. Coal remaining on hand at Noon, 23 " 395 " | Water remaining on | | | | 110 | ao | |
| Coal remaining on hand at Noon, | | | | ton | 8/4 | 180 lbs. | |
| | | | | 22 " | 9 | 195 " | |

| P. M. | | | | | 7 | | | | |
|-------|---------------|-----------|---|---------------|--------|------|----|----|--|
| 1 | 76. M. Ly Mr. | 16. by M. | 2 | 29.95545146 | L.C. | and. | 9 | D | |
| 2 | " | m. 96.m. | 2 | 29.945407 45 | " | " | 01 | " | |
| 3 | m. 76, m. | " | 2 | 29.945451 45 | " | 4 | 4 | " | |
| 4 | Ho. by M. | | 2 | 29.955552 46 | , " | " | 6 | " | |
| 5 | 76. M. ky m. | 4 | 2 | 29.96 0552 40 | a.e.3. | " | 6 | " | |
| 6 | Menk | " | 3 | 29.9403 49 44 | " | " | 6 | " | |
| 7 | 76.m. | " | 2 | 30.0003 48 43 | " | 4 | 8 | 10 | |
| 8 | No. Ly M. | 11 | 2 | 30,0003347 48 | 1 | " | 8 | | |
| 9 | " | Calus | | 30.02534743 | 4 | Hone | 10 | " | |
| 10 | " | " | 0 | 20.04534643 | 11 | | 10 | | |
| 11 | Week | . " | 0 | 30.0653 45 43 | 14 | | 10 | | |
| Mid. | Mech m. Ly B. | " | 0 | 30.06034341 | " | " " | 10 | 4 | |
| | | | | | | | | | |

under the command of Commanders J. F. Jewells
Monday Harel 1920 , U. S. Navy, , 1888 . RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Louisveccing & lutil 4 AM Over cart. Claudy. Hopy, boal, Calix fines Leaves their light ain front m. s. m. wereasing to gentle breeze from m. by H. It end of watch come in hause starbard cliain on tak. A. F. Lechton Claring three lening Weathers, Claud of lines & Himb lald gentle boerge & none Wby to Horts. Chared Seawer lebenty meis veterned. Beenved for ince to crew 95 h freelebread, land dale to a Low line at 140 and, Clear Granse at led of Watete of Manuflone. Front & all butil Recioials Mom. last teach, at 930. welent to gen quantino. M. & Me. Farden, Soft to Officer Alex bampbell, C 2nd; I Salhier I.C.A. Private boulog to B. M. d. Ed J. J. Gernald Street Telegrand Separation Senting Change. I saved to Engineer Department Jour peier of lucture of round all mais diex awaying. 8 feet by 8 feet by the pieces 2/2 by 2/2 Jul at 1000 Shortened Ed Junted sail, Clin Enver I Sooning Menidians to 4 PM. Sunty Change Claudy Ling Son Some formed M. by M. Ho Mr. Lear Sinval Sent Survives and Sur 2 and lutter to Grackice at oan. Rugaged its unsking must have have elethon Frank of to 8 GM. Leveraly Clear last and Lengy over land. Light to gentle Frege & name M. M. Mr. it Simuel Ment Sowie Topo Enel and Gardo and Marto. Soord by the Nabe Talice + boy order of land of their trees languistin Souble From to awan Knother achieve Examined and found to be correct. En Galloway Navigalor.

LOG of the United States Steamers Seas Fro Rate,
Morres in the Sundar of Kabe Japan

| - | | | | | | | | | | | | | | | | | |
|-------|--------|---------|----------------|--------------------------------------|-----------------------------------|--------|-------|---------|-------------------|--------------|-------------------|-------------------|----------------------|-----------------------------|---------------------|----------------------------------|------------------|
| | | | Reading | | WIND. | | | | BAROME | TER. | TEM | PERAT | TURE. | State of | Forms of | Hear other | ie Sea. |
| Hour. | Knots. | Tenths. | of Patent Log. | COURSES STEERED by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. att'd. | Air, Dry Bulb. | Air, Wet Bulb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Clean Sky, in 10ths. | State of the Sea |
| M. | | | | m. 76. m. | Calus | 0 | | | 30.00 | 51 | 42 | 40 | | · line | Hore | 10 | 1 |
| 2 | | | | M. by 96 | " | 0 | | | 30.04 | | | | | " | 4 | 10 | , |
| 3 | | | | " | // | 0 | | | 30.01 | 45 | 41 | 39 | | " | " | 10 | 10 |
| 4 | | | | 1 | M. ley M. | / | | | 20,00 | 40 | -41 | 38 | | " | " | 10 | |
| 5 | | | | m. 76. m. | " | 3 | | | 30,00 | 46 | 41 | 38 | | 6.C.3. | luis | 9 | - |
| 6 | | | | M by 26. | " | 3 | | | 30.02 | 47 | 40 | 38 | | a.e.x. | Cin | y | 3 |
| 7 | | | | 1 .0. | " | 2 | | | 30.04 | | | | | " | 11 | y | , |
| 8 | | | | Mus | " | 2 | | | 30.04 | | | | | " | .11 | 7 | 1 |
| 9 | | | | mn.m | Mul | 3 | | | 20,01 | | I Maria | | | 4.0.3. | " | 9 | 1 |
| 0 | | | | 11 | 113 | 3 | | | 20.01 | | / | | | " | " | 9 | |
| 1 | | | | mby 96. | " | 3 | | | 29.98 | | | | | " | " | 9 | |
| oon. | | | | Weix | " | 9 | | | 79.96 | | | 1 | | ", | " | 9 | |

| Course and distance | made good since preceding noon by observations, | knots. | te | enths. | |
|---------------------|--|--------|--------|----------|--|
| | (Latitude by D. R. | • | , | " | |
| | Longitude by D. R. | | , | " | |
| Position at Noon: | Latitude by observations of ⊙ | • | , | " | |
| | Longitude by chronometer from Forenoon Observations of ② | • | , | " | |
| | (Latitude by | • | , | " | |
| Position at 8 a. m. | Longitude by | 0 | , | " | |
| | (Latitude by | 0 | , | " | |
| Position at 8 P. M. | Longitude by | • | , | " | |
| Current during the | time, knots tenths per hour, setting to the | | | | |
| Variation of the Co | ompass by Amplitude ⊙ observed at Sunrise, ship's head | • | , | " | |
| Variation of the Co | ompass by Amplitude ⊙ observed at Sunset, " | 0 | , | " | |
| Variation of the Co | ompass by Azimuth ⊙ observed at " | • | , | " | |
| Variation of the Co | ompass by Azimuth ⊙ observed at " | • | , | " | |
| Water expended du | ring the preceding 24 hours, | | 3.50 | gallons. | |
| - 4 | during the preceding 24 hours, | 2 | 3.00 | u | |
| | n hand fit for use at Noon, | 2 | g. Ro | . " | |
| | ing the preceding 24 hours, | 2 | ons 78 | 0 lbs. | |
| Coal remaining on | hand at Noon, | 19 | ons 78 | 55" | |
| | | / | | | |

| P. M. | | | | | 1 | | | |
|-------|--------------|----------|-----|----------------|------------|--------|----|----|
| 1 | A. M. Ly. M. | M. D. M. | 3-5 | 29.9653 51 44 | 4. 6. 3. % | Como | 8 | S |
| 2 | m.s. m. | | 3-5 | 29.90 60 01 44 | " | " | 8 | 11 |
| 3 | West | " | 3-5 | 29.9308 5246 | " | " | 8 | 1 |
| 4 | m. by D. | | 3-5 | 29,9259 54 47 | " | " | 8 | 11 |
| 5 | m, oy. 76. | m. by H | 3-4 | 2993095448 | " | 11 | | |
| 6 | " | ", | 3-4 | 29.9308 02 48 | 6, 3.9 | 76me | 10 | - |
| 7 | 11 | " | 3-2 | 29.93 57 53 47 | " | " | 10 | 1 |
| 8 | Week | " | 3-2 | 29.950407 46 | " | " | 10 | " |
| 9 | Week " | Mush. | 2 | 2990035144 | 6.3. | " | 10 | " |
| 10 | 1 | " | 2 | 29.9603 00 46 | . 11 | 4 | 45 | " |
| 11 | m. ly s | " | 2 | 39,9703 50 46 | 4 | " | 10 | " |
| Mid. | M. ly D. | " | 2 | 29.97024946 | 11 | " | | |
| | | | 11 | | | 37.153 | | |

under the command of Commanders J. J. Jewell.

June Say Maner Cath , U. S. Navy, , 1888 . RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Doesene de autil 4 all bleneaut, balon Et light ain from Mr. Ly M. Clean hause Cuight to b. 16. Trous 4 to 8 aix. Clear last Ed pleasant Hazy over land with slight fog Light ains to quitle breeze frond M. H. M. at 745 Dech wite top gallach weach and land top gallact Mando. Liberty Canty returned. Clear Ecourse. Cercies its Pay Defet 118 4 encle of Doch & Regatable & 95 the fresh bread. Examined dry quis cettors & Fattery Ed found their in good Conditions Finand 8 aids to Midinglet Soneye from Week, Hayy, Pland M. Fitzgeraed extor, huden Deutryo change for being drawk, later lougined same man in double iron for being naincy & Greating a dichurbence in brig. This to await actions of Commends lat 930 impected at quarters There formed Es exerced Fattallions Mendeads to 4 PM. deep le. D. C. Generally clear Engy Ed Dqually. Gentle to stiff briege & roud M. D. Mr. By order of the Commanding Officer placed P. Irophy. ON. M. J. Me Falder . D. A.C. El K. J. Lindle I. C.A. in Souble inow to account trial by launt Manhial, at 210. retopy dutilling & af 320 Jeanles fines from Sailen 5 & T. Clean Trawn war from Shore in Engines Dept. Front 4 to 8 PM. Surge to Southword, gentle to hardenate breeze from W. by M. at Segunning of watch the light breeze from Same directive blens teamer. At Midwight Least bruge from mus Sungle le D. L Examined and found to be correct. Es Galloway Navigato

, Fr Rate,

| | | | Reading | | WIND. | | | | BAROME | | | | | State of | Forms of | Hear other | e Sea. | |
|-------|--------|---------|----------------------|----------------------|-----------------------------------|--------|-------|---------|-------------------|--------------|-------------------|-------------------|----------------------|-----------------------------|---------------------|-------------------------------|------------------|-------------------|
| Hour. | Knots. | Tenths. | of Patent Log. | by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. att'd. | Air, Dry Belb. | Air, Wet Bulb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Cles Sky, in 10th | State of the Sea | |
| A. M. | | | | Much | Mark | 2 | | | 29.98 | 21 | 49 | 46 | | 2.0.3. | Cum | 7 | 0- | The second second |
| 2 | | | | M. ly. 76. | " | 2-5 | | | 29.99 | 51 | 49 | 45 | - | 4.0,7.9. | " | 3 | " | |
| 3 | | | | M. 76. M. | " | 2 | | | 30.00 | 53 | 49 | 46 | | a, c, 3, | " | 2 | " | |
| 4 | | | | Eux | D. E. | 1 | | | 20.01 | | / / | | | 11 | " | 3 | " | |
| 5 | | | | 76. 9. M. | No. E. | 1 | | | 30.00 | | - | | | " | " | 7 | " | |
| 6 | | | | No. E. by. 76. | " | 1 | | | 20.06 | | / | 1 | | " | " | 6 | , | |
| 7 | | | | Mr. by 16. | 1 | 1 | | | 20.08 | | , | 1000 | | " | Quido | 01 | 1 | |
| 8 | | | | m. S. m. | " | 1 | | | 30.09 | | , | | | 11 | 11 | 0 | 4 | |
| 9 | | | | D, ly, E. | Dant | 1 | | | 20.10 | | | | | " | " | 7 | 1 | |
| | | | | E. D. E. | " | 1 | | | 30.10 | | | | | 11 | " | 6 | " | |
| 10 | | | | A. M.by, D. | " | 2 | | | 30.11 | | | | | " | " | 6 | 1, | - |
| 11 | | | | 11.09.00 | " | 3 | | | 30.11 | - | | | | " | " | 6 | " | |
| Noon. | | | | " | | | | | 0.11 | | | 10 | | | " | | 1 | - |

| Course and distance made good since preceding noon by observations, | knots. | tenth | s. |
|--|--------|-------------|--------|
| (Latitude by D. R. | | , ,, | - |
| Longitude by D. R. | . 0 | , " | |
| Position at Noon: Latitude by observations of ⊙ | 0 | , ,, | |
| Longitude by chronometer from Forenoon Observations of ⊙ | | , " | |
| (Latitude by | 0 | , ,, | |
| Position at 8 a. m. Longitude by | 0 | , " | |
| (Latitude by | 0 | , ,, | |
| Position at 8 P. M. Longitude by | 0 | , " | |
| Current during the time, knots tenths per hour, setting to the | | | |
| Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head | • | , ,, | |
| Variation of the Compass by Amplitude ⊙ observed at Sunset, " | | , ,, | |
| Variation of the Compass by Azimuth ⊙ observed at " | • | , ,, | |
| Variation of the Compass by Azimuth ⊙ observed at " | 0 | , " | |
| Water expended during the preceding 24 hours, | | 300 ga | llons. |
| Water Distilled during the preceding 24 hours, | | 300 ga | " |
| Water remaining on hand fit for use at Noon, | 2 | 700 | " |
| Coal consumed during the preceding 24 hours, | ton | 400 1455 | lbs. |
| Coal remaining on hand at Noon, | 19 " | 1455 | - " |
| | / | | |

| P. M. | | | | , | | | |
|-------|--------------|---------------|----------------|---------|---------|---|----|
| 1 | D. D. M. | D. D. M. | 20.11 55 03 48 | b.e. J. | aguas | 8 | 2 |
| 2 | D. by m, | " | 30.090000 48 | " | " | 8 | " |
| 3 | D. M. Ly. D. | " | 20.08 00 04 49 | 4 | " | 8 | " |
| 4 | ", " | " | 20.08 05 05 50 | " | " | 8 | |
| 5 | D.M. ly. M. | D. M. Ley. M. | 20,07060550 | 1, | Centy | 7 | |
| 6 | 26, by, D, | D. M. by M. | 20.0757000 51 | " | " | 7 | " |
| 7 | 76.8 | Calus | 30.07565451 | . " | " | 7 | |
| 8 | 76. E. | " | 20.0100 09 49 | " | 1 | 9 | " |
| 9 | 111 | | 30/2030/ 48 | " | aunt | 7 | " |
| 10 | 6. ley. D. | Each | 30145301 48 | " | Cir auc | 9 | |
| 11 | € 10. €. | " | 20.16 03 01 48 | 11 | " | 5 | ** |
| Mid. | 6.6.0 | " | 30,1652 00 47 | 11 | " | 7 | |
| | 1 | | | | | | ** |

under the command of Sommanders 2, 2, Swell.
Wednesday Manch 2/44 , U. S. Navy, , 1888 . RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Commence & hutil 4 all land, Claude huis & Hinh Squally 2 nd Low light to, stiff hueze from west tast haurs, When their land s. E. in light in, Front 4 to 8 acts. Legat aino front 16. E. at 146. Irans top gallaut yord. Vanned top gallaut yord. Vanned top gallaut yord. Front & all to Meridials Que folimant, light ains to gentle dreige front Douth. rat 900 map leted liter at quanters at exercised as follows, Let 2nd & 3rd Swising great gues, Powder Sie, Stations, M. Futzgerald, char, was relieved by order of Coming affice he being sober. It Bettig, B. 4.10, reported his terms of enlighter exspired. If 1015. Called away all boate around if equipped for sub service, exercised taction as squad rows, signals & rows the ship. Dupped for lines Alestong, List, Last one Thale fine of rows sailing launch. Umanais from diore in Engines of the Comme in hause part cleans on top 8. PH livil Hitright Line bright hioon light. Coal & hogy. Claud o land At sure Cir. afterword: Eller in Laws Lunges to. S. H. Examined and found to be correct. En & reloway

Frd Rate,

| | | | Reading | | WIND. | | | | BAROMET | ER. | TEMP | ERAT | | State of | Forms of | Clear)ths. | e Sea. |
|-------|--------|---------|----------------------|-------------------------------------|-----------------------------------|--------|-------|---------|-------------------|-------|-------------------|-------------------|----------------------|-----------------------------|---------------------|--------------------------------|--------------|
| Hour. | Knots. | Tenths. | of Patent Log. | OURSES STEERED by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. | Air, Dry Balb. | Air, Wet Bulb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Clea Sky, in 10ths | State of the |
| A. M. | | | | End | Calux | 0 | | | 30.144 | 490 | 49 | 44 | | a,c. | Str | 9 | 0 |
| 2 | | | | 1 | " | 0 | | | 30.14 4 | 48 | 48 | 46 | | " | " | 9 | 4 |
| 3 | | | | " | 11 | 0 | | | 20.154 | 47 | 44 | 45 | | " | " | 9 | " |
| 4 | | | | 1 | " | 0 | | | 30.154 | 14. | 46 | 44 | | . // | " | 9 | 4 |
| 5 | | | | 1 | " | 0 | | | 20.18 4 | 47 | 45 | 44 | | 4, 6, 7, | " | 9 | 11 |
| 6 | | | | No. 6. by. 6. | " | 0 | | | 20204 | 46 | 45 | 43 | | " | Cir Gun | 7 | " |
| 7 | | | | No. 76. €. | " | 0 | | | 30.224 | 48 | 45 | 44 | | " | 11 | 6 | " |
| 8 | | | | 16. by m | " | 0 | | | 30.244 | 49 | 47 | 45 | | ," | .4 | 6 | " |
| 9 | | | | - " | " | 0 | | | 30.24 | 504 | 49 | 46 | | 4.3. | Home | 10 | 4 |
| 10 | | | | 6. by 96. | " | 0 | | | 30.260 | 1/ . | 50 | 48 | | 2" | " | 10 | 11 |
| 11 | | | | A. El ly, D. | " | 0 | | | 30.270 | 九之。 | 5/ | 49 | | 4,0,3. | Curat | 8 | 4 |
| Noon. | | | | D. S. M. | South | 1 | | | 30.250 | 730 | 52 | 49 | - | " | " | 7 | " |
| | | | | | 3 | | | | | | | | | | | | 10 |

| Course and distance | made good since preceding noon by observa | ations, | knots. | tenths. | |
|----------------------|---|----------------------|--------|------------|---|
| | (Latitude by D. R. | | 0 , | "- | de la companya della companya della companya de la companya della |
| | Longitude by D. R. | | 0 , | " | |
| Position at Noon: | Latitude by observations of ⊙ | | 0 , | " | |
| | Longitude by chronometer from Forenoo | on Observations of ⊙ | 0 , | " | |
| | (Latitude by | | 0 / | " | |
| Position at 8 a.m. | Longitude by | | , | " | |
| | (Latitude by | | 0 , | \ " | |
| Position at 8 P. M. | Longitude by | | 0 / | ." | |
| Current during the | time, knots tenths per hou | r, setting to the | | | |
| Variation of the Con | mpass by Amplitude o observed at Sunrise | , ship's head | 0 , | " | |
| Variation of the Con | mpass by Amplitude ⊙ observed at Sunset, | " | 0 / | " | |
| Variation of the Con | mpass by Azimuth ⊙ observed at | " | 0 , | " | |
| Variation of the Cor | mpass by Azimuth ⊙ observed at | " | 0 / | " | |
| Water expended dur | ring the preceding 24 hours, | | Ö | O gallons. | |
| Water | during the preceding 24 hours | , | | " | |
| Water remaining on | hand fit for use at Noon, | | 24 | 00. | |
| Coal consumed durin | ng the preceding 24 hours, | | tons . | 400 lbs. | |
| Coal remaining on h | and at Noon, | | 19 " | 1055" | |
| | | | / | | |

| P. M. | | | | | 2 | | | |
|-------|--------------|-------------|----|----------------|--------|-----------|----|----|
| 1 | South | South | / | 30.2356 5450 | 6.0.3. | Cir Cuito | 5 | 9 |
| 2 | Do, by M. | " 0 | 2 | 30.2104930 | " | tuty | 5 | " |
| 3 | D. D. M. | " | 2 | 20.20080401 | " | | 5 | " |
| 4 | D. M. Ly. M. | A. M. Ly.M. | 1 | 30,20 60 38 52 | " | 4 | 4 | " |
| 5 | Mens | Much | 1 | 30/9 62 60 54 | " | 1 | 4, | , |
| 6 | " | loates | 0 | 20.19 69 39 53 | " | " | 6 | 1 |
| 7 | " | " | 0 | 20.20570754 | " | " | 4 | |
| 8 | , " | " | 0 | 20.2060602 | " | 4 | 3 | - |
| 9 | 76.76. €. | " | 0 | 30.23 06 50 52 | " | " | 4. | " |
| 10 | m. 96. m. | " | 0 | 80.2006 94 01 | 4 | 4 | 3 | /• |
| 11 | 26.76. M. | " | 0 | 20.200000000 | 4 | .1 | 3 | 1 |
| Mid. | Much | 11 . | 0 | 2020540449 | " | " | 6 | - |
| | | | 11 | | | | | 1 |

under the command of Manufaction of June 2 and June 1888. , U. S. Navy, RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Commence & until 4 all, leaure part chain ais top Jung to & all.

Partly clear, heavy. Pleasant Calus. Recured for line in Pay Dicht

1/8 of the each fresh feet by Degatables by 95 the fresh Fread, It souther Games

tap gallent by royal yord o by lover said to a bowline. Elbow is leawer from ou Lugerally clear with and + estr claude. Bright & Chasant. Hazy. Call From 8 acts to Mednight until last Leaux When light ains Came up ground Douth. Chared Lines, at 950 went to quarters for uniter as unepletion after which drilled as fallows Lut, Engres and Powder Dulinons, Quale arms 2 and Machine quins 3rd Dingle stricks and Marines Duale arms, Drilled at trefing & haking Dail front 10 10. to 1135, When Jurled Dail. By arder of Community afficer, reliaged 915 buyinglenen, bother, the level for which Lee was Confined Leaving expired. I wan in Trawie at end of Wately Polione Wonkinger engaged in Enquier o dept A. Fountone. Trais Midwight to 4 PM lunger Lunger linger los Mo. Thair, high ains to quitle Freeze Lover south, It 130 started fire in No. 2 2 4 Foilers, Come in Lawre 279 Jones C Forms From week the leave Balon afterwards, Clear Lagues, at Runsel went down tap gallent as oroyal yours as undent light sails, blin learner at end of Wately Theore Workman die Enqueers department quix for the day Frank & Merideace Cher Leaves To forming luseg 18 16. 4. 4. cueg 8, U. J. H Examined and found to be correct. En Gallowage & Navigator.

Ex Rate,

| | | | Reading | | WIND. | | | | BAROMETER. | | | | State of | Forms of | f Clear 10ths. | be Sea. |
|-------|--------|---------|----------------------|----------------------|-----------------------------------|--------|-------|---------|--------------------------------|-------------------|-------------------|----------------------|-----------------------------|---------------------|-----------------------|--------------|
| Hour. | Knots. | Tenths. | of Patent Log. | by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. Ther. att'd. | Air, Dry Bulb. | Air, Wet Bulb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Sky, in 1 | State of the |
| A. M. | | | | m.o.m | Calen | 0 | | | 20,2154 | 57 | 48 | | 6,0.7. | Cin Cando | 7 | 0. |
| 2 | | | | " | " | 0 | | | 20.2553 | | | | , | " | 8 | " |
| 3 | | | | A. M. Ly. M. | " | 0 | | | 30.26 53 | 50 | 47 | | , | liann | 8 | " |
| 4 | 53 | 2 | | A. M. by A. | " | 0 | | | 30.36 52 | | | | 1 | " | 8 | 11 |
| 5 | | | | D. E. W. E. | " | 0 | | | 36,2601 | 47 | 45 | | a.c. X. | Fister 1 | 9 | 11 |
| 6 | | | | Earl | " | 0 | | | 302607 | 47 | 45 | • | " | 11 | 9 | " |
| 7 | | | | €. 2. €. | | 0 | | | 202801 | 48 | 46 | | " | 11 | 9 | 1 |
| 8 | | | | Ench | Month | 1 | | | 30.2802 | 50 | 46 | | 1 | " | 9 | 4 |
| 9 | | | | Carl | Eux | 1 | | | 30.3000 | 54 | 50 | | 4.0.7. | Cir | 9 | 4 |
| 10 | | | | C. B. E. | - " | 1 | | | 303/06 | 54 | 00 | | " | 4 | 9 | " |
| 11 | | | | 6. lu D. | 6.0.6. | 1 | | | 20.93 61 | 57 | 54 | | " | 4 | 9 | , |
| Noon. | | | | 1 | " | 1 | | | 30,32 62 | 59 | 54 | | 11 | 11 | 9 | 1 |

| Course and distance made good since preceding noon by observations, | knots. tenths. |
|--|----------------------------|
| (Latitude by D. R. | 0 / 11 |
| Longitude by D. R. | 0 1 11 |
| Position at Noon: { Latitude by observations of ⊙ | o r = " |
| Longitude by chronometer from Forenoon Observations of ⊙ | 0 1 11 |
| (Latitude by | 0 / // |
| Position at 8 a. m. Longitude by | 0. " |
| | · /, " |
| Position at 8 P. M. Latitude by Longitude by | · , , |
| Current during the time, knots tenths per hour, setting to the | |
| Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head | . 0 / // |
| Variation of the Compass by Amplitude ⊙ observed at Sunset, " | o , , |
| Variation of the Compass by Azimuth ⊙ observed at " | 0 / // |
| Variation of the Compass by Azimuth ⊙ observed at " | · , , |
| Water expended during the preceding 24 hours, | JJ 7 gallons. |
| Water during the preceding 24 hours, | 2000 " |
| Water remaining on hand fit for use at Noon, | 2050 " |
| Coal consumed during the preceding 24 hours, | 1 tons 590 lbs. |
| Coal remaining on hand at Noon, | 1 tons 590 lbs. 18 " 465 " |
| | 700 |

| P. M. | | | | | 2 | , | | |
|-------|---------------|--------------|---|----------------|--------|------|----|----|
| 1 | D. S. M. | Q. B. M | 2 | 30.296260 54 | 4.6.3. | Afre | 9 | D |
| 2 | " | " | 2 | 30.24626055 | " | 11 | 9 | " |
| 3 | " | 1 | 2 | 20,25636254 | " | " | 4 | * |
| 4 | " | " | 2 | 30,24lor 61 56 | " | 4 | 9 | 11 |
| 5 | D. M. ly D. | D. M. Ley M. | 1 | 20,24646256 | " . | Cum | 8 | 0 |
| 6 | Mr. by D. | Menk | / | 80,2863 6256 | . " | " | 7 | 4 |
| 7 | m. by. 96. | " | / | 80.296261 56 | " | 4 | 7 | - |
| 8 | n. 46. m. | 1" | / | 30.29626154 | 2" | " | 7 | " |
| 9 | Mo. M. Ley M. | Calin | 0 | 20,796/6/56 | U. g. | hone | 10 | " |
| 10 | M. ley Ho | // | 0 | 30,2960 60 55 | " | " | 10 | " |
| 11 | " | " | 0 | 30.2959 59 55 | n | " | 10 | |
| Mid. | " | 11 | 0 | 303959 58 55 | 4 | " | 10 | " |

under the command of Cauculaudes I. D. Jewell
Finisay Manch 22nd , U. S. Navy, , 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Commence Elutil 4 all bayy around han you. Crow in howse foux chain A. J. Cultur From 4 to 8 all Auck 26. J. 76. Santly Clear With air Com and stor Claude. Fraggy. Coal, Calm until lack land, when light wins Cauce out from Month. Received for issue to crew 118 1/4 lach of freak treet & Vegatables of 95 lbs of frash bread, Liberty party returned blesse wantenan for Engineers dept lame our board. Grassed top gullent and royal yards cap The ellaw in Leavise Francis & aux to Mendias, lusight lb. S. 76. C. D. E. At 938. Went to fire quanters, Que Desire ready in or surveyor English is Described English and Delicion of Surveyor and From Back and South to fire quanters, Que Decision ready in or surveyor English 105 seep 3rd, 120. Dec. Expensive of Later Managatars Dulicions at infantary and 3rd Dio boout in order to deal granix. Cleans house. Voraman from slive at Wank in Eigeners Separtment Generally Clear Lugy, Light Energe Lound D. D. M. Donabed repairs and Atrong Sucks to davito, brown in Lune Shanbord clinin autop. Thried steam Cutter for two Leauns, James speace Whistle lot to Wank to Junes out are grate 3/ toggatt Thought to 8 PM. Some songal yands. Light ains from de Marsons de man de Jones Starbond de Jones of the Midwall yands. Corne in Lunge Starbond Lain an lap Grown to Midwall one in Leave Starbond Lister, Help. Char. Help. Leesigl Co. S. B. Examined and found to be correct. E.D. Palloway & Navigator

, Fr Rate,

| | | | Reading | | WIND. | | | | BAROME' | TER. | TEMI | PERAT | | State of | Forms of | Clear oths. | te Sea. |
|-------|--------|---------|----------------------|--------------------------------------|-----------------------------------|--------|-------|---------|-------------------|--------------|-------------------|-------------------|----------------------|-----------------------------|---------------------|--------------------------------|--------------|
| Hour. | Knots. | Tenths. | of Patent Log. | COURSES STEERED by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. att'd. | Air, Dry Bulb. | Air, Wet Bulb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Cles Sky, in 10ths | State of the |
| A. M. | | | | Mus | Caleis | 0 | | | 20,30 | 58 | 57 | 54 | | £. g. | Naue | 10 | A |
| 2 | | | | E. by 76. | 1 | 0 | | | 30,20 | 56 | 56 | 52 | | 11 | 1 | 10 | 4 |
| 3 | | | | No. E. | " | 0 | | | 2018 | 550 | 58 | 52 | | 1 | 1 | 10 | " |
| 4 | | 1 | 4. | 6. No. E. | " | 0 | | | 21.200 | 55 | 24 | 52 | | ," , | 01/11 | 10 | 4 |
| 5 | | | | 6. by . 96. | " | 0 | | | 30260 | 54 | 03 | 21 | | J.C. X. | Reports | 7 | 4 |
| 6 | | | | /, | " | 0 | | | 30,27.6 | 040 | 53 | 50 | | " | E vety | 6 | " |
| 7 | | | | D. E. Ly. & | " | 0 | | | 30.280 | 200 | 03 | 51 | | 11 | 1 | 6 | 4 |
| 8 | | | | 6 by. D. | Cish | / | | | 30.200 | 27 | 56 | 53 | | 1" | 1 | 8 | 1 |
| 9 | | | | Ciel | 1 | 2 | | | 3028. | 974 | 56 | 53 | | 8.e. 3, | " | 9 | 4 |
| 10 | | - | | " | 1 | 2 | | | 30,280 | 58 | 57 | 54 | | , | 1 | 9 | 1 |
| 11 | | | | 11 00 | , 11 | 2 | | | 30.26 | 61 | 99 | 55 | | " | 1 | 9 | " |
| Noon. | | | | M. G. | Week | 2 | | | 2026 | 63 | 61 | 20 | | " | 11 | 8 | " |
| | | | | | 0 | | | | | | | / | | | | | |

| Course and distance made good since preceding noon by observations, | knots. | tenths. |
|--|--------|-------------|
| Latitude by D. R. | 0 | , " |
| Longitude by D. R. | • | , ,, |
| Position at Noon Latitude by observations of o | • | , " |
| Longitude by chronometer from Forenoon Observations of ⊙ | • | , " |
| (Latitude by | 0 | , ,, |
| Position at 8 a. m. Longitude by | • | , " |
| (Latitude by | 0 | , ,, |
| Position at 8 P. M. { Latitude by Longitude by | • | , ,, |
| Current during the time, knots tenths per hour, setting to the | | |
| Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head | 0 | , ,, |
| Variation of the Compass by Amplitude ⊙ observed at Sunset, " | • | , ,, |
| Variation of the Compass by Azimuth ⊙ observed at " | 0 | , " |
| Variation of the Compass by Azimuth ⊙ observed at " | 0 | , ,, |
| Water expended during the preceding 24 hours, | J | ST gallons. |
| Water during the preceding 24 hours, | | 1 " |
| Water remaining on hand fit for use at Noon, | 17 | 100 " |
| Coal consumed during the preceding 24 hours, | tons | 1570 lbs. |
| Coal remaining on hand at Noon, | 17 " | 1185 " |
| | / | |

| P. M. | 2. m. | D.M. | 2 | 30.26666438 | J.c. g. | ar Cum | 7 | 0 |
|-------|-----------|--------|-----|----------------|---------|---------|----|----|
| 2 | " | " | 3-4 | 20.25 6664 58 | " | " | 7 | " |
| 3 | " | " | 3 | 30.24676559 | 11 | 4 | 7 | " |
| 4 | " | " | 3 | 20216465-59 | " | " | 4 | " |
| 5 | West | M.D.M. | 3 | 30.20666559 | " | 11 | 5, | " |
| 6 | " " | " | 2 | 20.20 65 63 58 | 1 | " | 4 | " |
| 7 | M. M. lym | " | / | 20.20646358 | " | " | 3 | " |
| 8 | " / | Dauts. | -/ | 20.70646258 | " | 11 | 3 | " |
| 9 | M. n. m. | ment | / | 30,20626157 | " | Cirlian | 3 | " |
| 10 | Week | ," | 0 | 30.206/ 6056 | " | 11 | 2 | " |
| 11 | m. by 46. | Calm | 0 | 30.20616107 | " | ar | 2 | /1 |
| Mid. | m. 16 m. | // | 0 | 58.19 61 60 57 | 11 | 11 | / | " |

under the command of Commander 2. 2. Jewell, U. S. Navy,

Daturday March 34 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Commences Ef untel Halls. Clear, Fright Starlight. Nozy Et land. Calm. Ellow in hawre bliar " plusant. Foggy aver harizen. balen metil lack hours when higher ains from End. Round time in haurse wharbord chain on tap. Received in Pay Dept 95 the fresh bread Joseph 95 lbs Joseph Breidian Joseph Breeze John Earl & Much, Cleared leawer, at 845. aired Sedding. Priped John Duhnion marked White Jage With hammer Unwheel Collissed Just Duhnion marked White Jage With hammer Unwheel Quarter Jex legum wark Cluther & Linds Hace. Bhellacked Just Leer End click bay. The boundy Officer returned from leave, blear Leawne Mattoggatt Menidials to If The blinsand. Nazy, blands air Cum. Light to moder-ate breeze from D. Mr. brans in Leawer Al amentone Firous 4 to 8 PM bleasant. Light aire to gentle breeze from south to m. s. m. Chief Engineer & m. shire returned from leave. bleas haure. malfogatt Survally Claudy accusional bright moonlight, book blands liling. fillight Uss. ACCountstone. lungle Wist. D.D. Galloway Navigator. Examined and found to be correct.

, Fro Rate,

| | | | Reading | | WIND. | | | | BAROME | TER. | TEMI | PERAT | | State of | Forms of | Clear Oths. | le Sea. |
|-------|--------|---------|----------------------|----------------------|-----------------------------------|--------|-------|---------|-------------------|--------------|-------------------|-------------------|----------------------|-----------------------------|---------------------|----------------------------------|-----------------|
| Hour. | Knots. | Tenths. | of Patent Log. | by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. att'd. | Air, Dry Bulb. | Air, Wet Balb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Clear Sky, in 10ths. | State of the Se |
| A. M. | | | | Santa | Calm | 0 | | | 30.19 | 60 | 59 | 51 | | L.e. | Come minh | / | 0. |
| 2 | | | | 16:70. E. | /Earl | 1 | | | 30,16 | 99 | 57 | 55 | - | 11 | " | 1 | 11 |
| 3 | | | | Carl | ", | 3 | | | 30.13 | | | | | " | " | 1 | " |
| 4 | | | | 16. M. E. | " | 3 | | | 30,11 | 60. | 54 | 54 | | " | " | 4 | " |
| 5 | | | | E. by. 96. | €. No. E. | 2 | | | 3010 | 60 | 58 | 54 | | " | " | 4 | " |
| 6 | | | | 211 | 11 | 2 | | | 3009 | 98 | 57 | 54 | | " | " | 1 | " |
| 7 | | | | Cash | " . | 2 | | | 30.09 | 59 | 57 | 54 | | 11 | " | 1 | |
| 8 | 1000 | | | 6. av 96. | " | 2 | | | 3009 | 59 | 57 | 54 | | 0.0.3. | " | 0 | |
| 9 | | | | | | 2 | | | 30.08 | 60 | 59 | 54 | | " | + 76 inh | 0 | 1 |
| 10 | | | | 11 | " | 3 | | | 3006 | 60. | 59 | 55 | | O.C. 3. d. | " | 0 | |
| 11 | | | | €. 96. 6 | 1" | 2 | | | 3001 | 160 | 09 | 06 | | 0.c.g. N. | 1 | 0 | " |
| Noon. | | | | E. ley. 76. | Calm | 0 | | | 30,03 | 60 | 59 | 51 | | " | .1 | 0 | |
| | | | | 10. 1 | | | - | | | | 1 | / | | | | | B |

| Course a | nd distance made good since preceding noon by observations, | knots | | tenths. | |
|------------|--|-------|---------|----------|--|
| | (Latitude by D. R. | | , | " | |
| | Longitude by D. R. | 0 | , | " | |
| Position | at Noon: { Latitude by observations of ⊙ | o | , | " . | |
| | Longitude by chronometer from Forenoon Observations of ⊙ | 0 | , | " | |
| 7.7 6 6 | (Latitude by | 0 | , | " | |
| Position a | at 8 a. m. Longitude by | • | , | " | |
| | (Latitude by | | , | " | |
| Position | at 8 P. M. Longitude by | • | , | " | |
| Current | during the time, knots tenths per hour, setting to the | | | | |
| Variation | n of the Compass by Amplitude ⊙ observed at Sunrise, ship's head | • | , | -11 | |
| Variation | n of the Compass by Amplitude ⊙ observed at Sunset, " | • | , | " | |
| Variation | n of the Compass by Azimuth ⊙ observed at " | 0 | , | " | |
| Variation | n of the Compass by Azimuth ⊙ observed at " | • | , | " | |
| Water ex | spended during the preceding 24 hours, | | 30 | gallons. | |
| Water | during the preceding 24 hours, | | | " | |
| Water re | emaining on hand fit for use at Noon, | | 14,0 | co | |
| | sumed during the preceding 24 hours, | | tons 17 | 50 lbs. | |
| Coal rem | aining on hand at Noon, | 16 | ") | \$25 " | |
| | | | | | |

| P. M. | 22 2 | 04.1 | | | | 0 | | 0 |
|-------|----------------|-----------|---|----------------|----------|-------|---|-----|
| 1 | D. ly. E. | E. No. E. | 2 | 30.0060 5957 | 0,0,4 | Remb | 0 | 10 |
| 2 | E. D. E. | " | 2 | 29.99 60 58 56 | . " | " | 0 | " |
| 3 | E. No. E. | " | 2 | 199760 38 57 | " | " | 0 | 11 |
| 4 | E. ley. 76. | " | 2 | 2993615857 | " | " | 0 | " |
| 5 | E. %. E. | 16. C. | 2 | 19.9261 58 56 | 0.0. | " | 0 | " |
| 6 | n. E. ley E. | " | 2 | 29.98 62 58 57 | 0.0.4 | " | 0 | " |
| 7 | M. E. liy, No. | " | 2 | 2990612839 | " | " | 0 | " |
| 8 | 26. m. | " | / | 2992610958 | " | " | 0 | 1 |
| 9 | D. M. Ly M. | Calm | 0 | 209461 38 07 | " | " | 0 | " |
| 10 | "/ | // | 0 | 20.9561 2859 | " | " | 0 | .11 |
| 11 | D. D. M. | " | 0 | 20.9561 5857 | " | " | 0 | 544 |
| Mid. | m. D. m. | " | 0 | 299461 3859 | a.e.sis. | atrat | 4 | 4. |
| | | | 1 | 1 11/1 | | | / | |

under the command of Command Er. J. J. Lewell , U. S. Navy, Duntay March 25 15 , 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commence of Gute of little blands in sucreasing to guille breeze fram blands. To lear hause of Gute breeze for sun blands of huse of Gute breeze for sun blands throatening rain, light airo from 6.76. 6. Nogy aver land, bown an hause for head for hum 90th fruch sun \$1/09 th of Suff Vegetable. If rough blands to Meridian Charles the Gute for hum 16 th the Galloward light to genete breeze from 6.76 th winth dragglaged to have saint up afterward light to genete breeze from 6.76 th with land allow below being the way a guarder. It was a galley top hurst and to tracked up, below have at most of whate.

Thought and the Mind have for hund the form had to the form had to the land the Constant of the form the form to the form the form of the form of the form of the form the form to the form to the form to the form to the form the form to the fo

Examined and found to be correct.

Len Galdoway Navigator.

| | | | Reading | | WIND. | | | | BAROME | TER. | TEMP | ERAT | URE. | State of | Forms of | lear ths. | e Sea. |
|-------|--------|---------|----------------------|--------------------------------------|-----------------------------------|--------|-------|---------|-------------------|--------------|-------------------|-------------------|----------------------|-----------------------------|---------------------|--------------------------|--------------|
| Hour. | Knots. | Tenths. | of Patent Log. | COURSES STEERED by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. att'd. | Air, Dry Bulb. | Air, Wet Bulb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of C Sky, in 10 | State of the |
| A. M. | | | | 16. m. | Calm | 0 | | | 29.91 | 59 | 18 | 51 | | f.c. | Cun | 1 | 0 |
| 2 | | | | Month | Manth | 2-3 | | | 29.92 | 57 | 55 | 23 | | 8.0.9. | " | 1 | 4 |
| 3 | | | | No. E. | " | 1-3 | | | 29.94 | 56 | 54 | 52 | | " | " | 2 | 4 |
| 4 | | | | No. les. E. | " | 274 | | | 29.93 | 56 | 54 | 51 | | 4 | Cir | 3 | " |
| 5 | | | | No log M. | " | 2-4 | | | 29.93 | 55 | 53 | 98 | | " . | nuch | 2 | " |
| 6 | | | | 76.76. M. | 76. m. | 3 | | | 29.97 | 54. | 52 | 49 | | 8. l. | 4 | 2 | 2 |
| 7 | | | | n. 76. E. | | 3 | | | 29.99 | 53. | 20 | 44 | | ," | " | 4 | 11 |
| 8 | | | | 76.76. m | Murth | 2-4 | | | 3004 | 07 | 48 | 45 | | 8.0.9. | " | 1 | 4 |
| 9 | | | | 76. by E. | 6 % 6. | 3 | | | 30.09 | 51 | 49 | 46 | | " | " | 1 | |
| 10 | | | | " | Mark | 3 | | | 30,13 | 53 | 49 | 46 | | " | 4 | 5 | |
| 11 | | | | 76. m. by 16 | " | 3 | | | 30,15 | | | | | 4 | 4 | 5 | 15 |
| Noon. | | | | Hanth | , | 3 | | | 30/5 | 54 | 49 | 46 | | " | 4 | 6 | " |

| | Course and distance | made good since preceding noon by observations | s, | knots. | | tenths. | |
|---|----------------------|--|------------------|--------|----|----------|--|
| | | (Latitude by D. R. | | • | , | " | |
| | | Longitude by D. R. | | 0 | , | " | |
| | Position at Noon: | Latitude by observations of ⊙ | | 0 | , | " | |
| | | Longitude by chronometer from Forencon Ol | bservations of ② | | , | " | |
| | 3 4 5 5 | (Latitude by | | | , | " | |
| | Position at 8 a. m. | Longitude by | | | , | " | |
| | | | | 0 | , | ,, | |
| | Position at 8 P. M. | Latitude by Longitude by | | | , | " | |
| | 0 .1: 4. | | | | | | |
| | Current during the t | ime, knots tenths per hour, se | tting to the | | | | |
| | Variation of the Cor | upass by Amplitude @ observed at Sunrise, ship | p's head | ۰ | , | " | |
| | Variation of the Cor | npass by Amplitude ⊙ observed at Sunset, | u | 0 | , | " | |
| | Variation of the Con | npass by Azimuth ⊙ observed at | u | 0 | , | " | |
| * | Variation of the Con | npass by Azimuth ③ observed at | ш | • | , | " | |
| | Water expended dur | ing the preceding 24 hours, | | | 35 | gallons. | |
| | Water | during the preceding 24 hours, | | | | " | |
| | Water remaining on | hand fit for use at Noon, | | 1 | 00 | -0 " | |
| | | ng the preceding 24 hours, | | ton | 3 | 200 lbs. | |
| | Coal remaining on h | | | | | 65 " | |
| | | | | | - | 00 | |

| No by E. | Hants | 3-5 | 30.10 5450 45 | 3. 2.9. | Gram | 5 | 6 |
|-----------|--|---|---|---|--|--|-------|
| M. Cu €. | ") | 1-5 | | | | | |
| w /' - | | 9 | 20.17 5348 43 | " | Les Cens | 5 | 4 |
| Marth | " | 3-4 | 30.19 54 45 43 | 3. R. 9. | di aur. | 5 | 1 |
| 76 m. | " | 3-5 | 2021 56 48 43 | | 11 | 3 | , |
| 76.16. | " | 2-4 | 3021 54 47 42 | | " | 3 | 4 |
| " | " | 2-4 | 20 25 54 45 1/3 | 0. | Cum | 4 | 4 |
| Carl. | -1 | 2 | 30.24554642 | 3. C. | " | 4 | 4 |
| 96. 8. | . " | 2 | 20.30 55 45 42 | 4 | | | |
| Honath | " | 2 | 3033544441 | " | | | |
| 26. № €. | " | 2 | | " | " | 7 | " |
| m. s. m | / | 2 | 50.3555 45 42 | * | " | 6 | " |
| m. ley D. | " | 2 | 20.36 53 4548 | | | 0 | 9 |
| | 16. E. 16. E. 16. M. E. 16. No E. 17. J. M | Mo. E. " Mo. E. " Mo. Mo E. " Mo. Mo E. " Mr. J. Mr | Mo. E. " 2-4 Early " 2-4 Mo. E. " 2 Monath " 2 Mo. Mo E. " 2 Mr. J. Mr " 2 | 76. E. " 24 2021 5447 42 "" 24 20255445 148 Each " 2 202455 46 42 76. E. " 2 2030 55 45 42 76. Mo E. " 2 203555 44 41 M. J. M " 2 203555 45 42 | 16. M 3-5 3.21 36 48 48 16. E 24 50.25 54 45 1/8 2 50.25 54 45 1/8 5. C. 16. E 2 50.30 55 45 42 16. M. S. M. 1 2 50.35 55 45 42 17 16. M. S. M. 1 2 50.35 55 45 42 | Mo. M. " 3-4 30 48 43 " " Mo. E. " 2-4 30 25 54 45 1/3 " " Carl " 2 30 25 54 45 1/3 \$. C. " Mo. E. " 2 30 30 55 45 42 " " Monath " 2 30 35 55 44 41 " " Mr. J. Mr. J. Mr. " 2 30 35 55 45 42 " " | 16. M |

under the command of Dammauler, v. J. J. Sewell. Manday Mural 36: , U. S. Navy, , 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until A all low then Group from Santans in squalls light to moderate An Jechun J'rom of until 8 aux. drent to s. 76. Burerally Clandy with threatening appearance blands Cum & Minh Aqually last lines, diglet to insterate brings from Houth to M. M. Recures for usine to crew 90 lbs fresh bread. Lane & Daie to a Low line at 100 our bless leave se Liberty Karty returned It Sound done of allo to Maridian. Jungs. These. Claudy, increasing at end of watch to fair Weather Gentle Greeze from E. H. E. Geret leaur & Hanth remainder of elatele. Morderate equales, at 92 Went to gueral quarters & Sielled at great Juns, at 10 45 sentend dail. The quarterly and Condended in accordance Weth their recommendation & by order of Commising affin threw as in board of les of Nam received from Mare Island. Holy Ford. Cher has tentes magigue & shell room plant-cocks. Examine dry gum cotten + Battery and found in good condition. Things dust Merideauto 4 Mm. Party Claudy. Aqually, whis gentle to stiff from Houth. Load, Engaged sei Work are hew hammock Clarkes, Such marines out to practice at ours. Quarterly Loans of Survey landemund to be 12 bles of Ham. By order of laminding affects Threw it over board beleas Leaute. From H. to. 8. PM. A weekerlike Glandy Ed Case. Light energacing in squales at times to maderate breeze from Month. At lunder lent Sown to gallent yord Es muito, blue haw he was Formis. Fram 8 PM to Mediught breeze from Hanth. At 900. Great to general quarters. Ready I'm, 200 2 us, 300. 300 Mas 400 Pour Sen 200 Engro. 200 marinis 205 Decond Fire Lat 500 2 md 320 3rd 350 A meetrula deent U. J. M.

Examined and found to be correct.

to Lallowaye No

| | | | Reading | | WIND. | | | | BAROMETI | ER. T | EMPE | RATURE | State of | Forms of | Hear othe. | te Sea. |
|-------|--------|---------|----------------------|-------------------------------------|-----------------------------------|--------|-------|---------|--------------------|-------|-------------------------------|------------------------|-----------------------------|---------------------|------------------------------|--------------|
| Hour. | Knots. | Tenths. | of Patent Log. | Ourses STEERED by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height Tin inches. | her. | Air, Dry Bulb. Air, Wet | Bulb. Waterat Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Cle Sky, in 10th | State of the |
| A. M. | | | | Mus | Calu | 0 | | | 30.58 2 | 24 | 444 | 1 | S.e. | Qir Cum | 6 | 6 |
| 2 | | | | Manth | " | 0 | | | 20,36 0 | - | / | | " | " | 6 | 11 |
| 3 | | | | Care | " ' | 0 | | | 2036 0 | 7/4 | 134 | 0 | " | " | 6 | " |
| . 4 | | | | €. B. E. | " | 0 | | | 20370 | 7 4 | +24 | 0 | " | " | 6 | 11 |
| 5 | | | | Co. by 96. | Heart | 1 | | | 20350 | 1/4 | 124 | 6 | 8. e. y. | 00 h | 6 | " |
| 6 | | | | 16. m. | 76. 76. M. | 2 | | | 20350 | 5/4 | 43 | 7 | " | " | 6 | " |
| 7 | | | | 76.76.M | " | / | | | 2036 0 | 0 4 | 123 | 9 | " | " | 5 | " |
| 8 | | | | No. May 16 | " | 1 | | | 30.370 | | | | " | N. A | 5 | 4 |
| 9 | | | | 11 ~ | Dauth | 1/ | | | 30.420 | 9 | 454 | 2 | " | t coli | 4 | 1 |
| 10 | | | | D. E. | D. D. E. | / | 32.50 | | 30.420 | 5/4 | 16 4 | 3 | " | " | 4 | 4 |
| 11 | | | | A. Co. ley & | " | / | | | 30,410 | 7 4 | 14 4 | 4 | " | 1 | 4 | 4 |
| Noon. | | | | " | , | 1 | | | 30,400 | 17 4 | 44 | 4 | " | " | 4 | " |

| Course and distance | made good since preceding noon by observations, | knots. | tenths. | |
|---------------------|--|--------|------------|--|
| | (Latitude by D. R. | 0 | , ,, | |
| | Longitude by D. R. | 0 | , " | |
| Position at Noon: | Latitude by observations of ⊙ | | , ,, | |
| | Longitude by chronometer from Forenoon Observations of ⊙ | o | , ,, | |
| | (Latitude by | | , ,, | |
| Position at 8 a. m. | Longitude by | • | , ,, | |
| | (Latitude by | 0 | , ,, | |
| Position at 8 P. M. | Longitude by | 0 | , , | |
| Current during the | | | | |
| | mpass by Amplitude ⊙ observed at Sunrise, ship's head | 0 | , " | |
| | mpass by Amplitude ⊙ observed at Sunset, " | 0 | , ,, | |
| | mpass by Azimuth ⊙ observed at " | 0 | , ,, | |
| | mpass by Azimuth ⊙ observed at " | • | , ,, | |
| | ring the Preceding 24 hours, | 3 | TO gallons | |
| | during the preceding 24 hours, | 16 | ea " | |
| | hand fit for use at Noon, | 10-1 | 50 " | |
| | ng the preceding 24 hours, | / toni | 410 lbs. | |
| Coal remaining on h | | | 1255 " | |
| Coar remaining on h | land at 100h, | 1 | 200 | |

| P. M. | 2 1 | 2 1 | | | 1 | 0.4 | , | |
|-------|---------------|------------|----|----------------|---------|--------------|-----|-----|
| 1 | VO. 6. | D. C. | / | 20.38 53 49 45 | 6.0.3. | aribene Till | 4 | So. |
| 2 | D. E. by E. | D. E. S. E | 1 | 3030345144 | 8.e.g. | 4 | | " |
| 3 | " | " | 1 | 303155 5249 | " | " | 5 | " |
| 4 | " | " | 1 | 203/56 53 49 | " | " | 4 | + |
| 5 | D. M. ly D. | Q. M. | 2 | 203156 54 30 | " | " | 4 | " |
| 6 | Much | much | 2 | 2032045144 | O.c. 3. | + Mins | 0 | 4 |
| 7 | m. by 16. | Dr. Ly 76. | / | 203508 5247 | " | Think | | " |
| 8 | no my ly 16. | no, m. | 1 | 3035-605248 | , | | 100 | " |
| 9 | W. Ly. E. | Calu | 0 | 300409000 | " | " | 0 | " |
| 10 | 16. E. ley E. | E. Ly Mo. | 1 | 203108 5300 | ', | 1. | 0 | " |
| 11 | 6 (ex) Ho. | " | 3 | 20.21 08 5047 | 11 | 11 | 0 | " |
| Mid. | €. 196. €. | 1 | 3 | 301208 5044 | " | " | 0 | " |
| | | | 11 | | 1 | | | |

under the command of Carmador. J. J. Jewell June and March 2/15 , U. S. Navy, , 1898 . RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Commerces & metil Hails Clear balow, Clear Laurse. Frank of Luxil & Clerk. Fair. Light airs of ram Month by No. M. M. Lazy averland. Received up top gallent Ford & Elicate Clear Lawree. The Street wind At THE sent up top gallent Ford & Meridial Neather pleasant, Cartly Claudy. Light ains from Douth & D. E. blear hourse. Eleives are Sourd 80 Ht Deax Wood To 45 Nanake What Ext 4 lbs lapper Mails subject to maplestion by Loans & Clused & Dain, melit, by Onse of laund afficers. It 900 unspected at quarters and exercised At 1000 Janned Bettallion & Frilled Ball Rifles Paul Replies Paulies Station Leux U. D. R. Marisianto of M. Ro. Ro. Carrely clear Legged ains from D.E. E. D. Co. Autorican this Aguers laure in Sent a Fooding Officento an hers yais hanner Clother tolen Laure Dux are hers Warst hammer Clather blear hourse, Durtelling M3. Hoggatt Oursust blandy Hogy Light ains to leglet breeze. Livour Of Mr. to 16. m. vap 3 30 bleared Leowae cat sunsown lent down light · gando Lew G. W. B. Eby. M. blear hawse. Duetilesing Colon, light ains to gentle breze from line of to so to. Examined and found to be correct. Lo Galloway Nicionals

LOG of the United States Steamer Colary. Brd, Rate, Maared in the handers of State Japan

| | | | Reading | | WIND. | | | | BAROME | TER. | TEM | PERAT | URE. | State of | Forms of | lear ths. | e Sea. |
|-------|--------|---------|----------------|----------------------|-----------------------------------|--------|-------|---------|-------------------|--------------|-------------------|-------------------|----------------------|-----------------------------|---------------------|--------------------------------|----------------|
| Hour. | Knots. | Tenths. | of Patent Log. | by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. att'd. | Air, Dry Bulb. | Air, Wet Bulb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Clea Sky, in 10ths | State of the S |
| A. M | | | | E. 76. E. | E. by 16. | ح | | | 20.91 | 53 | 5-1 | 48 | | 0.e.3.N. | Cum Minels | 0 | A |
| 2 | | | | 11 | 1 | 3 | | | 30.17 | 95 | 37 | 48 | | " | " | 1 | " |
| 3 | - | | | " | " | 5 | | | 20.12 | 54 | 52 | 49 | | , | " | " | " |
| 4 | | | - | No. 6. by 6. | " | 4 | | | 3008 | | | | | 1 | " | " | " |
| 5 | | | | / | 16. E.ley E. | 4 | | | 2006 | | | | | " | " | " | 4 |
| 6 | | | | E. No. E. | 16. E.ley E. | 4 | | | 20,03 | 53 | 93 | 57 | | " | " | " | " |
| 7 | | | 1 | " | " | 9 | | | 20.04 | 55 | 53 | 50 | | "/ | Cir Cum | 4 | 4 |
| 8 | | | P. 4. | " | " | 2 | | | 3001 | 5-7 | 53 | 52 | | " | " | , | 4 |
| 9 | | | | " | " | 2 | | | 2997 | | | | | o.c.r. | Pierre simile | " | " |
| 10 | | | | no. E. ley E | " | 2 | | | 2993 | | | | | " , | " | " | 4 |
| 11 | | | | No. E. ley E. | " | 2 | | | 2989 | | | - | | o.e.g. | 11 | " | 4 |
| Noon | | | | 11 | " | 2 | | | 29.86 | | | to - | | " | " | 1 | , |
| 21001 | | | | | | | | | | | - | | | | | | |

| - | | | | | | | |
|---|----------------------|--|-------------------|--------|-----|-----------|--|
| | Course and distance | made good since preceding noon by observatio | ns, | knots. | | tenths. | |
| | | (Latitude by D. R. | | 0 | , | " | |
| | | Longitude by D. R. | | 0 | , | " | |
| | Position at Noon: | Latitude by observations of ⊙ | | • | , | " | |
| | | Longitude by chronometer from Forenoon (| Observations of ⊙ | | , | " | |
| | | (Latitude by | | • | , | " | |
| | Position at 8 a. m. | Longitude by | | 0 | , | " | |
| | | (Latitude by | | 0 | , | " | |
| | Position at 8 P. M. | Longitude by | | • | , | " | |
| | Current during the | time, knots tenths per hour, s | setting to the | | | | |
| | Variation of the Co | mpass by Amplitude ⊙ observed at Sunrise, sh | nip's head | ٥ | , | " | |
| | Variation of the Cor | mpass by Amplitude o observed at Sunset, | " | 0 | , | " | |
| | Variation of the Cor | mpass by Azimuth ⊙ observed at | u | • | , | " | |
| | Variation of the Con | mpass by Azimuth O observed at | " | 0 | , | " | |
| | Water expanded dur | ring the preceding 24 hours, | | | 3 | Togallons | |
| | Water Dust | during the preceding 24 hours, | | | 190 | 50 " | |
| | | hand fit for use at Noon, | | 2 ton | 3 a | 00 " | |
| | Coal consumed during | ng the preceding 24 hours, | | 2 top | s 6 | o lbs. | |
| | Coal remaining on h | and at Noon, | | 12 " | 11 | 95 " | |
| | | | | | | / | |

| P. M. | | | | | | | | 0 | |
|-------|----------------|-----------|----|-------------------|------------|--------|---|----|--|
| 1 | E. M. E. | €. 76. E. | 2 | 29.8438 5756 | C. O. r. | neint | 0 | 11 | |
| 2 | no. E. ly. E. | " | 2 | 29.80 8 8 3 8 8 6 | " | | 0 | 11 | |
| 3 | 6. 96. 8 | " | 2 | 29.78595057 | " | " | 0 | 9 | |
| 4 | Mo. ley Mr. | " | 1 | 29.78095958 | " | " | 0 | " | |
| 5 | Week | W. D. M. | 2 | 19.48606160 | " | " | 0 | 11 | |
| 6 | D. S. M. | 1/ | / | 1978606160 | acg. | " | 0 | 0 | |
| 7 | D. m. | Q. M. | 2 | 2979606059 | beg. | " | 3 | " | |
| 8 | m. s. m | , " | 2 | 29.81 60 60 69 | " | " | 4 | ", | |
| 9 | No. m. ley Mr. | M. D.M. | 2 | 2983 625958 | ," | Ri ann | 4 | " | |
| 10 | n. m. | no. M. | 2 | 2984626058 | 8.0.7.91 | | 3 | 1 | |
| 11 | no 26. m. | | 2 | 19846/6058 | 8.e. 7.91. | " | / | " | |
| Mid. | 16. M. | " | 2 | 29.87 61.60 58 | " | 4 | / | " | |
| | | | 11 | | | | | | |

under the command of Cammanters J. D. Sevell-Wesensday March 28th , U. S. Navy, , 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Donumeuces & Unxil Hall.

Odercack With lum & Minch Clando, grantle to underste breeze from Cby,
Noyy. Rainey often Intheour. Cless hause Attoured tone. haurse received for love 95 the freele bread breeze from E. M. E. Clear cA.F. Ceentin I all to Merideau Sweet fearing Thowers last feart, hight linege from E. No. E. At 920 luntered Crum at quanters & extercised as fallowe by at 2nd, Est 3rd great guns. Mad Est Powder Durision Machine gun instruction. Received in Ray Dept. for Cametruction 160 feet lumber & H Senior member heek at 101. At 1840 Stroped Futilling. Clear Leawse. Iverge to ain from E. M. E. Clear Leaw se. Sent liberty farty our shore. A Leave Work-A. Fann Astone. Tram of until g. Post back Cleaning towards end of Watch. Light ains to Engle from Mr. D. Mr. to D. Mr. At Runer Sent Love top gallent yards and bent light clails this rolling deeply at times to long sevell of row D.D. Mr. Clear Leawne Me M. Color Lawre Ground swell - German Corvette John or eggs to diving the watch and anchored. Cuarges Ulss Examined and found to be correct. Le De Caleoway

| | | | Reading | | WIND. | | | | BAROME | | | | | State of | Forms of | Clear oths. | le Sea. |
|-------|--------|---------|----------------------|----------------------|-----------------------------------|--------|-------|---------|-------------------|--------------|-------------------|-------------------|----------------------|-----------------------------|---------------------|--------------------------------|--------------|
| Hour. | Knots. | Tenths. | of Patent Log. | by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. att'd. | Air, Dry Bulb. | Air, Wet Bulb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Cles Sky, in 10ths | State of the |
| A. M. | | | | No. E. ley E. | Hart | 1 | | | 29.92 | 63 | 58 | 55- | | l.e. | ar am | 5 | 2. |
| 2 | | | | Hart | " | 1-4 | | | 29.94 | 60 | 56 | 53 | | L. C. 9 | , | 5 | " |
| 3 | | | | no. by m | " | 3-8 | | | 29.94 | 88 | 54 | 50 | | " | " | 5 | " |
| 4 | | | | €.76. € | M. N. €. | 2-5 | | | 29.99 | 59 | 55 | 53 | | , | " | 4 | " |
| 5 | | | | No. ley. E. | Marth | 2-4 | | | 3003 | | | | | . 11 | " | 7 | 1. |
| 6 | | | | " | " | 2 | | | 30.06 | 98 | 54 | 51 | | ," | " | 1 | " |
| 7 | | | | M. M. M. | No. by m | 2 | | | 30.10 | 58 | 54 | 5/ | | S.C. | Circum | 7 | " |
| 8 | | - | | M. E. | 11 | 2 | | | 30.11 | 580 | 51 | 49 | | 4 | " | 8 | " |
| 9 | | | | | E. N. E. | 2 | | | 30.14 | 58 | 03 | 49 | | 8.03 | " | 8 | " |
| 10 | | | | 76.76. € | | 3-5 | | | 30.17 | | | | | 8 8. 3. 9 | " | 8 | " |
| 11 | | | | Nby m | 76.76.m. | 3-0 | | | 30.16 | | | | | " | . " | 7 | 4 |
| Noon. | | | | Month | 4' | 3-4 | | | 30.16 | | | | | " | " | 6 | " |
| | | | | | , 9 | | | | | | | | | | | | |

| Cou | rse and distance | made good since preceding noon by observati | ons, | knots. | | tenths. | |
|------|--------------------|---|-------------------|--------|-------|----------------|--|
| | | (Latitude by D. R. | | | , | " | |
| | | Longitude by D. R. | | 0 | , | " | |
| Posi | ition at Noon: | Latitude by observations of ⊙ | | • | , | " | |
| | | Longitude by chronometer from Forenoon | Observations of ⊙ | • | , | " | |
| | | (Latitude by | | | , . | " | |
| Posi | tion at 8 a. m. | Longitude by | | • | , | " | |
| | | (Latitude by | | • | , | " | |
| Posi | ition at 8 P. M. | Longitude by | | • | , | " | |
| Cur | rent during the t | time, knots tenths per hour, | setting to the | | | | |
| Var | riation of the Cor | mpass by Amplitude o observed at Sunrise, s | ship's head | 0 | , | " | |
| Var | riation of the Cor | mpass by Amplitude o observed at Sunset, | " | • | , | " | |
| Var | riation of the Cor | npass by Azimuth o observed at | " | • | , | " | |
| Var | riation of the Cor | npass by Azimuth ⊙ observed at | " | 0 | , | " | |
| | | ing the preceding 24 hours, | | | 350 | gallons. | |
| Wat | ter | during the preceding 24 hours, | | | | " | |
| Wat | ter remaining on | hand fit for use at Noon, | | , | 165 | 0 " | |
| Coal | l consumed durin | ng the preceding 24 hours, | | to | ns 13 | 90 lbs. 45" | |
| | l remaining on h | | | 11 | " 20 | 45" | |
| | | | | | | | |

| P. M. | 20 0 2 | 1 | | | , | | | |
|-------|----------------|---------|-----|----------------|-----------|---------|---|----|
| 1 | Me. E. Ley. M. | Hanth " | 3 | 30.15 58 56 49 | J.c. 3.9. | Cir Cum | 7 | 2. |
| 2 | M. H. €. | " | 3 | 30.1459 56 50 | " | " | 7 | 4 |
| 3 | Hanth | 4 | 9 | 30.13 59 56 49 | J.c.y. | " | 8 | |
| 4 | 76. E. ley. E. | " | 2 | 30.13 59 56 50 | " | | | |
| 5 | Honth. | " | 2-3 | 30,1259 56 49 | " | Dhah | 9 | " |
| 6 | Mo. ley. Mr. | " | 2-4 | 20.12 58 53 44 | | " | 9 | 4 |
| 7 | Harth | , | 2-4 | 30.1456 51 46 | " | " | 9 | " |
| 8 | 7.7°.E | " | 2 | 30.1456 49 45 | " | " | 9 | " |
| 9 | Enes | Mus | 2 | 30.14 58 51 48 | " | Cunt t | | |
| 10 | ₽. €. | " | 2 | 20 19 58 51 48 | " | Cerm | | |
| 11 | D. E. Ly 2 | " | 2 | 2020 56 51 48 | 4 | Cecu | 9 | " |
| Mid. | " | " | 2 | 30.3056 51 48 | , | Court 1 | 8 | " |
| | | | 11 | | | | | |

under the command of Cammander J. J. Lewell June 8 ay March, 39th , U. S. Navy, , 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Commences & until 4 acts Partly Clear, With air Cum & Himb Claudo & occasional Enight heavelight land. Squally after I st hour. Light airs to gentle bruge from Honth, wereasing in heavy equally to mederate gale 3rd leave but shufting gradually to M. E, was 320 squalls moderate & less Greguent. Claudo Cuma aver from West's Clear Leaune Congle 26. Sto Condended and Squally Lunch park cleangeing land four Light ain to mederate breeze in Squalle from Benth & M. By, m. Chawies for inne in Pay Dept 95-lles fresh tread at 118 9/4 each of fresh bech & Vegatables, at 145 branced light fords and located have lead to leave the leaves From of until 8 all. Malloggatt Throw & all to Meridian. Gun Claudo, Bright & Johnsant. Nazy. Dowally after Just lever, Light broose from E. M. E. Juist hour Suffing to M.M. Es Mich in gentle to slip breeze. Duch an afficer to pay usual Visit of landry to german lawrette Daplie a. By ander of launding afficer yemoved Irow from F. I anjohy Pm, N. J. Lindle, 104, W. M. J. Ma Falden, S.A.10, prisoners weld for laund Markine & placed them under Rentryp change, Went to quantons for unisher & imprechian at 930. After Which disens Ist 3rd Hav El Powder Durinous at rifles 2 ud Die Sungle stier, marines Dunce Small anno, lamminde affices, of german landelle Dapolia Caller, Thepopse for Comise Ah. Rein as Landsman. Drileed at unking & Jurling from 1000 to 1000 pun blear Nawse At Campstone. Meriglian to H PR. Europe Grow Borth. Squally Linggaver Lorizen, Wanking at Sammoon lenthes show Working in Engra dept. Clear leawse Firous of leutil & PM. Generally clear Lugy. Ahr blowdo, bacd. Light to was erate Lineage from Month. by onter of laund affect, placed P. Danjohy, Pm, M.J. me Fradde DA. 10. W. J. Lindke 1.C.A. in Bringle inono to awaix trial by General laurt Martisl. Deut an affecier to wake ween affens of Courtry to Firench Affann Stone. Flugship Vurrene, Clear Leawse Curyto less blear laure Ty do o cais Examined and found to be correct.

View Cand Navigator.

| | | | Reading | | WIND. | | | | BAROMI | ETER. | TEMI | | | State of | Forms of | Hear the | e Sea. |
|-------|--------|---------|----------------------|----------------------|-----------------------------------|--------|-------|---------|-------------------|--------------|-------------------|-------------------|----------------------|-----------------------------|---------------------|------------------------------|--------------|
| Hour. | Knots. | Tenths. | of Patent Log. | by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. att'd. | Air, Dry Bulb. | Air, Wet Bulb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Cle Sky, in 10th | State of the |
| A. M. | | | | D. E. by E. | Much | 1 | | | 30.19 | 23 | -H9 | 47 | | Leg. | Cisto | 9 | 0. |
| 2 | | | | 2. 6. | " | 1 | | | 20,17 | | A COLON | / / | | " | " | 8 | " |
| 3 | | | | D. D. E. | Henth | 1 | | | 30,17 | 03 | -48 | 45 | | " | " | 8 | " |
| 4 | 1 | | 6月1 | 2.6. | €. | 1 | | | 30,14 | 50 | 47. | 45 | | 0" | " | 8. | " |
| 5 | | | | No. 6. by E. | balu | 0 | | | 30.16 | | | | | de, of | Cir Gum | 7 | " |
| 6 | | | | Cash' | " | 0 | | | 30.18 | | | | | " | + was | 0 | 4 |
| 7 | | | | lo. by, co. | " | 0 | | | 30,18 | | | | | " | " | 5 | " |
| 8 | | | | C. D. C. | // | 0 | | | 20,19 | 7 | | / | | " | 4 | / | " |
| 9 | | | | C. ley 96. | " | 0 | | | 30,17 | | | | | ocg. | " | 0 | " |
| 10 | | | | 2. 8 | D. E. | 1 | | | 30,16 | | 1 | | | " . | " | 0 | " |
| 11 | | | | D. D. G. | " | 1 | | | 30,14 | | | | | " | " | 0 | " |
| Noon. | | 1 | | 11 | Calm | 0 | | | 2013 | 08 | 56 | 52 | | . ', | " | 0 | ", |
| | | | | | | | | | | | | | | | | 1 | |

| Course and distance made good since preceding noon by observations, | knots. | tenths. | |
|--|--------|---------------|--|
| (Latitude by D. R. | 0 | , " | |
| Longitude by D. R. | 0 | , " | |
| Position at Noon: Latitude by observations of ⊙ | 0 | , ,, | |
| Longitude by chronometer from Forenoon Observations of ⊙ | • | , ,, | |
| (Latitude by | 0 | , ,, | |
| Position at 8 a. m. Longitude by | 0 | , ,, | |
| (Latitude by | • | , " | |
| Position at 8 P. M. Longitude by | o | , ,, | |
| Current during the time, knots tenths per hour, setting to the | | | |
| Variation of the Compass by Amplitude © observed at Sunrise, ship's head | • | , ,, | |
| Variation of the Compass by Amplitude ⊙ observed at Sunset, " | 0 | , ,, | |
| Variation of the Compass by Azimuth ⊙ observed at " | • | , ,, | |
| Variation of the Compass by Azimuth ⊙ observed at " | • | , ,, | |
| Water expended during the preceding 24 hours, | | 3 5 Ugallons. | |
| Water during the preceding 24 hours, | | " | |
| Water remaining on hand fit for use at Noon, | 2 | -250 " | |
| Coal consumed during the preceding 24 hours, | tons | 1480 lbs. | |
| Coal remaining on hand at Noon, | // " | 565 " | |
| Coar remaining on hand at 10001, | // " | 000 | |

| P. M. | | | | | | | | | | |
|-------|---|--|---------------|----------------|----|----------------|-------|---------|----|----|
| 1 | | | D. by &. | D. E. | 1 | 30.11 595754 | acz. | + Winds | 0 | 20 |
| 2 | | | 76, 8. | 6. 76. 6. | 2 | 30.10 59 9854 | " | " | 0. | " |
| 3 | 1 | | " | " | 3 | 20.11 59 0854 | " | " | 0 | " |
| 4 | | | No. E. by. E. | No. E. Luy, E. | 3 | 30.10595854 | acon; | " | 0 | 11 |
| 5 | | | 1 | №. €. | 3 | 309393754 | asr. | nink | 0 | " |
| 6 | | | " | " | 8 | 30.0958 9752 | 11 | " | 0 | " |
| 7 | | | " | " | 3 | 30.09070553 | " | 1, | 0 | " |
| 8 | | | " | " | 3 | 30.09 57 57 52 | 10 | " | 0 | " |
| 9 | | | " | " | 3 | 30.11 578452 | 11 | 11 | 0 | 11 |
| 10 | | | " | " | 3 | 20.11 57 5-452 | 11 | " | 0 | - |
| 11 | | | " | " | 3 | 30.11 575 2452 | oc. | 4 | 0 | " |
| Mid. | 7 | | " | " | 3 | 3010575052 | " | 4 | 0 | " |
| | | | | | 11 | | | | | |

under the command of Cammantes J. D. Jewell Friday March 31th , U. S. Navy, , 1888 . RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Commences & Misil of all.
Class & land slightly Lagg to Dantant. Bught heave light, Light variable aim A. Fechita Frame of to & all.

Parely clear With air and Estate Claudo, Fragy, balon, back fines back with for form the livery party returned. Received for inner to liver 118 3/4 elso lack of freed beef & Depetable of the of freed bread. Commend top gallent Gardo at 150, bless leaves the face of the former Jungs Ulston Claudy & pleasant Weather. Hogy, Calen Jures & last Leauns, Light ain's Yrom DE, Venamber of watch, At 930, unstered at quarters & Exercise. I'm Del, Single strike 2 us Die, Refles, At 1100 the Commander pair an afficial duit to the Grench Hagship Es german han, o War, Recewed in the Engro Dept the Gallowing Istores. 308. Sallow Den Oil. 100, Galls levame Oil, 10 Gallo Durpentine. Lo eles heithage, 2 Gallo Drych. 6 Durting Brug Shovels. 20 4h Rough From 24 4h Capper Ripe, 20. Square for Rubber, 20 the marline Los Vire Brient, 12 Nack Daw Blasts, of Laup Chimney o & 6 look Buckets. Dailway Jang at Work are Her Gamenacko Clather, Share Wankman sugaged in Engro Detel Collen Leaves. Received from Eas Mexicark + Co fallowing istores for Engineer Della ats
alten waste; 22 4 the white Lind 56 lles white Jine + 6 Panis. Brushes (Runall)

Ceridian will + PR.

Ceridian will + Promise Curique Strong around Lariged, Light air from S. E. Fines
Lour. Then gentle Greeze from E. 76. E. 4 M. E. Ly. E. Lary Lower grainey. Chair Lawre Frames Leinegang under the supluence of ligues, placed sim in south Irons to away further action of the Commanter. By direction of lund offer, plans G. F. Commigliam (CHor, in Souble Loons to assur achian of Commanter for threatening Denty to grave insoluce to affice of Lear 1 Cs. Frechily Overcust Claudy at rainey, gentle breize from N.E. at Sunset M.E. Clans Laure aver can Ex clausey, Just half rainey, gentle Greeze from Examined and found to be correct. E.D. Galloway Navigator.

| | | | Reading | | WIND. | | | | BAROME | ETER. | TEM | PERAT | | State of | Forms of | Hear the | ė Sea. | 100 |
|-------|--------|---------|----------------|----------------------|-----------------------------------|--------|-------|---------|-------------------|--------------|-------------------|-------------------|----------------------|-----------------------------|---------------------|------------------------------|--------------|-----|
| Hour. | Knots. | Tenths. | of Patent Log. | by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. att'd. | Air, Dry Bulb. | Air, Wet Balb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Cle Sky, in 10th | State of the | |
| A. M. | | | | 76. E. ley E. | 76. E. | 3 | | | 2009 | | | | | acs | Gun Str & Him | | m. | |
| 2 | | | | " | " | 3 | | | 30.08 | | | | | " | " | 0 | " | |
| 3 | | | | E. 76. E. | " | 3 | | | 2000 | | | | | " | " | 0 | " | |
| 4 | | | 115 | " | , | 3 | | | 30.0 H | | | | | | " | 0 | " | |
| 5 | | | | " | C. N. E. | 3 | | | 20,01 | 56 | 53 | 53 | | 0.60 | Mil | 0 | 20 | |
| 6 | | | | " | " | 3 | | | 20.01 | 56 | 53 | 52 | | 0.0.9. | " | 0 | " | |
| 7 | | | | . " | 4 | لع | | | 2092 | 56 | 54 | 52 | | 11 | " | 0 | " | |
| 8 | | - | | ", | " | روي | | | 30.01 | 56 | 57 | 02 | | " | " | 0 | " | |
| 9 | | | | Co. ley Mo. | " | 3 | | | 20.01 | 58 | 53 | 93 | | " | " | 0 | " | |
| 10 | | | | 6.16.6. | .4 . | 3 | | | 30.00 | 58 | 56 | 54 | | de. | " | 0 | 4 | |
| 11 | | | | " | 4 | 3 | | | 29.99 | 39 | 56 | 04 | | " | , | 0 | 11 | |
| Noon. | | | | " | " | 3 | | | 29.97 | 159 | 56 | 54 | | 1. | , | 0 | " | |
| | | | | | | | | | | | | | | | 1 | - | - | |

| | Irmata | | tenths. | | |
|--|--------|-------|----------|----|--|
| Course and distance made good since preceding noon by observations, | knots. | | tentus. | | |
| (Latitude by D. R. | 0 | , | " | | |
| Longitude by D. R. | | , | " | | |
| Position at Noon: Latitude by observations of ⊙ | 0 | , | " | | |
| Longitude by chronometer from Forenoon Observations of ⊙ | 0 | , | " | | |
| (Latitude by | 0 | , | " | | |
| Position at 8 a. m. Longitude by | 0 | , | " | | |
| (Latitude by | 0 | , | . " | | |
| Position at 8 P. M. Longitude by | 0 | , | " | | |
| Current during the time, knots tenths per hour, setting to the | | | | | |
| Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head | 0 | , | " | | |
| Variation of the Compass by Amplitude ⊙ observed at Sunset, " | 0 | , | " | | |
| Variation of the Compass by Azimuth ⊙ observed at " | 0 | , | " | | |
| Variation of the Compass by Azimuth ⊙ observed at " | 0 | , | " | | |
| Water expended during the preceding 24 hours, | | 33 | O gallon | 8. | |
| Water during the preceding 24 hours, | | | 46 | | |
| Water remaining on hand fit for use at Noon, | | | 350 " | | |
| Coal consumed during the preceding 24 hours, |) to | ons / | 40 -1bs | | |
| Coal remaining on hand at Noon, | 10 | " 4 | 125 " | | |
| | | | | | |

| P. M. | | E.n. E. | E.M. E. | 3 | 29.94595754 | aez. | ain' | 0 | 0 |
|-------|----------|--------------|---------|---|---------------|-------|------|---|---|
| 2 | | E. by 16. | " | 3 | 2991 39 57 54 | " | " | 0 | 4 |
| 3 | 1 600 | €.76. €. | " | 3 | 29.92623835 | orgi. | " | 0 | " |
| 4 | | m. 76. m. | 1" | 2 | 29.93640957 | " | " | U | 4 |
| 5 | | D. E. ley D. | Calu | 0 | 29.93610957 | oc.n. | " | 0 | N |
| 6 | | Dank | " | 0 | 29.92685836 | " | " | 0 | 1 |
| 7 | | D. Ly E. | , | 0 | 29.92605736 | " | " | 0 | 1 |
| 8 | | D. E. ley &. | | 0 | 29.92620736 | " | " | 0 | 1 |
| 9 | | D. D. m. | " | 0 | 2992645736 | 4 | " | 0 | 1 |
| 10 | | D. D. B. | " | 0 | 2991665756 | " | 11 | 0 | 1 |
| 11 | 100 4000 | D. E. ley E. | " | 0 | 2990625756 | " | 11 | 0 | " |
| Mid. | | much | * | 0 | 29,906/56 55 | , | " | 0 | " |

under the command of Commans is J. D. Swell Baturday Monch 31th , U. S. Navy, , 1881 . RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Doncast Claudy El raining Gentle breeze from No. E. Chor house Daie to a bowline, bless Leaves. Reed in Pay Dept 95 las fresh Lineal Firam 8 aux to Meredians

Case avercant & Cloudy. Gentle breeze from 6. 46. E. Colean Learne By ander of Communication foliaces A. Bergman, ICA, in Reletary Confinent Jung 18. Ulsh Lenegang in Sauble Inaus Lan Live Says for being drewer an Foart ship. By order of boundarder recausived Commingham in Sauble Irons to await further vaction. The shore to await further action. The shore to await further action at 1120 Junted Rail. Limb Manught lb. D.mc. left Ship are Three Lays leave A. T. Sechur Meridian to It PM.
Overeast With rain last part. Light to gentle heeges & rom & 16.

6. lelear haure. Aluleached Dienage launtry

MB Proceetts Fram Hutil 8 PM. Chiney. Conne in Leave part Chain on top Fram 8 Pm. to Mednight Landen Private No. E. Bayle Felicine of James Charge Charge Was relieved from past to placed minder Dentry - Charge to sober, blur Linuxe deent lls.n. MB Hoggatt Usn Examined and found to be correct. Ter Callowaye Navigator.

LOG of the United States Oleanner Essy Mannes in the Leanban of Kobe Japane

| | | | Reading | | WIND. | | | | BAROMETER. TEMPERATURE. | State of | Forms of | f Clear 10ths. | ie Sea. |
|-------|--------|---------|----------------------|----------------------|-----------------------------------|--------|-------|---------|--|-----------------------------|---------------------|---------------------|--------------|
| Hour. | Knots. | Tenths. | of Patent Log. | by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. Ther. Water at Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Sky, in 10 | State of the |
| A. M. | | | | m Ly D | Calu | 0 | | | 29.8860 37 36 | O.c. r. | June Noimb | 0 | 0 |
| 2 | | | | 76. m. ly 76. | " | 0 | | | 2988 60 96 55 | " | " | 0 | " |
| 3 | | | | no. ley. m. | " | 0 | | | 29.89 59 56 55 | ,, | " | 0 | " |
| 4 | , | | | 7.76.77 | " | 0 | | | 29.37 58 56 55 | , | " | 0 | " |
| 5 | | | | Mo. Ly. M. | " | 0 | | | 19.89 59 56 55 | " | " | 0 | " |
| 6 | | | | m. 76. m | " | 0 | | | 29.89 99 55 54 | O.c.d. | then str | 0 | 2 |
| 7 | | | | M. by. D. | " | 0 | | | 2992 58 56 53 | ae. | Cir aun | 0 | = |
| 8 | | | | 76. Ley 90 | Dauth | / | | | 29.91 58 55 53 | J.C.m. | " | 1 | - |
| 9 | | | | m. %. m | " | 2 | | | 29.92 08 53 52 | L.C. | No inch | 1 | : |
| 10 | | | | A. Ly. E. | "11 | 2 | | | 3990575452 | " | " | 3 | = |
| 11 | | | | Anust | 1 | 3 | | | 29.88 57 53 51 | ," | " | 3 | = |
| Noon. | | | | " | D.D. M. | 3 | | | 29.86 57 5452 | 8.e.z. | Cinn | 4 | - |
| | | | | | | | | | | 0 | | | |

| Course and distance | made good since preceding noon by observation | ns, | knots. | tenths. | | |
|---------------------|---|-------------------|--------|-----------|---|--|
| | (Latitude by D. R. | | • | , ,, | | |
| | Longitude by D. R. | | ٠ | , ,, | | |
| Position at Noon: | Latitude by observations of ⊙ | | ۰ | , ,, | - | |
| | Longitude by chronometer from Forenoon C | Observations of o | • | , ,, | | |
| | (Latitude by | | • | , ,, | | |
| Position at 8 a. m. | Longitude by | | 0 | , " | | |
| | (Latitude by | | • | , " | | |
| Position at 8 P. M. | Longitude by | | • | , " | | |
| Current during the | time, knots tenths per hour, s | etting to the | | | | |
| | mpass by Amplitude o observed at Sunrise, sh | ip's head | 0 | , " | | |
| Variation of the Co | mpass by Amplitude ⊙ observed at Sunset, | " | • | , " | | |
| Variation of the Co | mpass by Azimuth O observed at | " | 0 | , " | | |
| Variation of the Co | mpass by Azimuth O observed at | " | • | , " | | |
| Water expended dur | ring the preceding 24 hours, | | 5 | gallons. | | |
| Water | during the preceding 24 hours, | | | , " | | |
| Water remaining on | hand fit for use at Noon, | | 76 | 50 " | | |
| | ng the preceding 24 hours, | | tons | 1305 lbs. | | |
| Coal remaining on h | nand at Noon, | | 9 " | 1360 " | | |
| | | | / | | | |

| P. M. | | | | | , | 4.0 | | 1 |
|-------|-----------------|----------------|-----|----------------|----------|-----------|---|---|
| 1 | Much | M. A. M. | 3 | 29.86 58 56 52 | J.C. 19. | + Meinh | 5 | 6 |
| 2 | M. Ly M. | Much | 3-5 | 29.83 59 57 51 | L.c. g. | " | 5 | " |
| 3 | , | " | 3-6 | 29.84 59 58 51 | " | " | 5 | 4 |
| 4 | M.m.ly. M. | 76-m. | 3-7 | 29.9058 5548 | " | " | 5 | * |
| 5 | " | No. M. leg. M. | 3-6 | 29.9861 4551 | " | " | 7 | 4 |
| 6 | " | " | 3-6 | 20,00 61 49 42 | " | " | | |
| 7 | M. 76. M. | " | 2-6 | 20,03 54 46 41 | " | ai lun | 8 | " |
| 8 | 76. M. Ley. 96. | " | 2-0 | 30.0453 4641 | " | " | 9 | , |
| 9 | Manth | 76.76. M. | 25 | 30.06-57 43 40 | L.c.9. | OF | 9 | " |
| 10 | 76. Ly M. | " | 2-4 | 300751 4240 | " | " | 9 | |
| 11 | 76. m | " | 2-3 | 2010 51 42 40 | ," | " | 4 | " |
| Mid. | m. hy D. | Ment | 2 | 30.1150 4/39 | y".c. | L.e. | 8 | " |
| | |) | 11 | | | | | |

under the command of Sommander, J. D! Jewell, Sunday Garie & us , U. S. Navy, , 1888 . RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Dammences & lentil of acid Me JoBine DM, returned from leave 7/2 hauns avertime. Char Lawre A Cloudstone From 4 Centil 8 all Coal Claudy. Overcus List hour With light Fain. Just three hours Calm, last Ecour leget ains from South Clear Ecourse. Received in Pay Dept for issue to brew 118 9/4 lles lach of Greek Delf & Vegatables & 95 lles fresh bread Reliand Maries & Buyle by order of Tannog Officer A.S. Seentim From & all to Meridian dient 26. 0. 58. Generally Cloudy, Logy, light to gentle Greeze from South ESD. D. M. at 9 to lundered brend at quarters Ed leaning officer imperted Suip El Crew, afterwards called all hands to mucher read Articles for the Loverment of the no any ad mustered brew Jas Daley, List, returned from liberty two Trours over time Ed drunk. By order of the lammend officer blaced him under the Dentry & change to water. I. & Me Lenna D. A. I.C. W R. D. Nawey. D. A. 10 returned from Liberty of Germa over time. Clarting Mattuggail From Meredianto H. MB Cenque de D. 7. Partly Clior bright & last, Leong, Squally often Let Leour. Jewile bruge from m. s. m. 1 cat hour Shifting to ellest & uncreasing in squallo to fresh heavy that leour lame and norm & blancing at him in heavy squalls to frush heavy held seedine hervice are board, blear human Section dervice an Goard, Clear Trawne A.C. Toundstone Levery & level & Som light livery to freel Aquallo from 70 m. 24 m Desmarch laure in leut officier to lucike usual Vent of laury sey bles haure lunges to 3%. From & My levetil Medingal Tenerally Elear Lingles Ed lied, Claudo lunt ets, Uron sue at 1/05 Tognally lentil lack Learn Wind from No. Mr. Warying in Lance Linoue light to Atiff Leveze. Link Learn Wind shifted to Which in light Greeze, Clear Learnese Michoundstone. Gingu. 76 D. 48. Examined and found to be correct. Le Calloway .

LOG of the United States Seawer lines
Manned in the Learder of Robe Japane

| | | | | | | | | | | | 0/ | | | | | |
|-------|--------|---------|----------------------|----------------------|-----------------------------------|--------|-------|---------|-------------------|-------|--|----------------------|-----------------------------|---------------------|--------------------------|----------------|
| | | | Reading | | WIND. | | | | BAROMET | ER. | TEMPERAT | TURE. | State of | Forms of | f Clear 10ths. | e Sea. |
| Hour. | Knots. | Tenths. | of Patent Log. | by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. | Air, Dry Bulb. Air, Wet Bulb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of C Sky, in 10 | State of the S |
| A. M. | | | | m. Ly 16. | Much | 1 | | 20 | 30/20 | 50 | 41 39 | | J. e. | lie | 7 | D |
| 2 | | | | M. D. M. | " | 1 | | 3, | 30.13 | to! | 4039 | | " | " | 7 | " |
| 3 | | 100 | | Mens | " | 1 | | 30 | 30154 | | | | " | " | 8 | " |
| 4 | | | | " | | 1 | | | 30.16 4 | | | | " | " | 8 | " |
| 5 | | | | M. H. M | " | / | | | 30194 | | | | " | " | 9 | " |
| 6 | | | | " | " | 1 | | | 30.200 | | | | ., | " | 9 | " |
| 7 | | | | " | , | 1 | | | 30,2/3 | 50 | 4240 | | " | " | 8 | " |
| 8 | | | | Much | , | ./ | | | 30.220 | 10 | 4441 | | ", | Sun of | 8 | " |
| 9 | | | | 76. m- | 76.96.M | 2 | | | 3020 4 | | | | bieg. | 11 | 8 | ", |
| 10 | | | | 76.76.€. | Manth | 1 | | | , , | 1 | 46 42 | | ', | " | 8 | ., |
| 11 | | | | £ 54 %. | D. D. E. | 2 | | | 20,200 | - | 1 | - | " | li Shr | 7 | " |
| | | | | of m | 10.4 | 4 | | | 3-1-6 | | | | " | | ,5 | |

| Course and distance | made good since preceding noon by observation | ons, | knots. | | tenths. |
|----------------------|---|-------------------|--------|-----|----------|
| | (Latitude by D. R. | | • | , | n |
| | Longitude by D. R. | | • | , | " |
| Position at Noon: | Latitude by observations of ⊙ | | . 0 | , | . " |
| | Longitude by chronometer from Forenoon | Observations of ⊙ | 0 | , | " |
| | (Latitude by | | • | , | " |
| Position at 8 a. m. | Longitude by | | 0 | , | " |
| | (Latitude by | | 0 | , | " |
| Position at 8 P. M. | Longitude by | | • | , | " |
| Current during the | time, knots tenths per hour, | setting to the | | | |
| Variation of the Con | mpass by Amplitude o observed at Sunrise, s | ship's head | 0 | , | " |
| Variation of the Con | mpass by Amplitude ⊙ observed at Sunset, | . " | 0 | , | " |
| Variation of the Con | mpass by Azimuth O observed at | u | 0 | , | " |
| Variation of the Con | npass by Azimuth ⊙ observed at | u | 0 | , | " |
| Water expended dur | ring the preceding 24 hours, | | 1 | 390 | gallons. |
| Water | during the preceding 24 hours, | | | | " |
| Water remaining on | hand fit for use at Noon, | | / | 35 | 7 " |
| Coal consumed during | ng the preceding 24 hours, | | tons | 211 | 0 lbs. |
| Coal remaining on h | and at Noon, | | 8 " | 14 | 90 " |
| | | | | / | |

| P. M. | | | | | , | | | |
|-------|---------------|---------------|---|----------------|---------|---------|---|---|
| 1 | D.M. | South | 1 | 30.2066 49 45 | J.c. 3. | Cir Cun | 4 | 2 |
| 2 | D.D. M. | 2. m. | 1 | 20.18 66 49 45 | | | | |
| 3 | D. M. by M. | " | 1 | 2019 6349 46 | 0. 6.3. | " | 0 | 1 |
| 4 | D.m | " | / | 30.18 60 49 45 | " | " | Ü | * |
| 5 | " | , ") == | / | 30.18 54 4445 | " | " | 0 | " |
| 6 | n.76.m | m. Ey. 76. | 1 | 3015 55 4946 | " | " | 0 | |
| 7 | m. by 76. | " | 1 | 30 15 56 49 46 | " | 4 | 0 | " |
| 8 | 76. m. Ly. M. | ", | / | 2016589748 | " | - | 0 | |
| 9 | 76. E. Ly 76. | 16. m. by 76. | 1 | Bo1456 5/48 | " | " | 0 | 4 |
| 10 | 6. sy 2. | no. 6 by no. | / | 30/1/560/48 | | " | 0 | * |
| 11 | 16. E sy 16. | " | / | 30/00051 48 | 3.0.19. | ", | 7 | * |
| Mid. | " | " | 1 | 30-1456 5/ 48 | " | " | 5 | 1 |
| | | | | | | | | |

under the command of Commander I. I. Sewell,
Manday April Que , U. S. Navy, RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Commences & leutil 4 ans from West, Clear havise. From of hutil, 8. all. Curique Unt Clear Lagy & Calm. Light ains from Weet. Received for wine in Pay Dept 90 Mbs fresh weed. I benestach 2 m. m., Et b. E. Made Pm, Were Confund in double unais to await racking of Country of officer for attempting to sunggle Ed Dunggling liguer By order of Country of Country of Planes of Country of Large Joth Deing Arber. Officer grow the German Flagskip Come to Shawk the Country officer for boarding yenterday, at 700 lansed sail to a bourline. Clear Leaure Mattoggatt Fram 8 alls to Meridials Cungle. a. D.M. Partly Clear Leagy Ed land, Claudo Cum Sta & Cir, legis win to Treeze Frat to general quarkers at 950, abrent Wet and leave D. Fountain. C. S. m. " Prevato stany Us Mob. Our Lauling Liais. Overhaulis Shell roome & Magizius & look Coers, electrice batternes, louncepious ses dry gun cellen previers valle familie good order, By order of lound officer. placed C. E. made Pm, & J. Grountast D. M. m. m. in Saule mons for ten day's for Dunggling liquor. Private G. D'anier, Uls M. C. Was brought aff to thep by the hunicipal police 3 % Lours over time Truck Ed Was by order of lung afficien Jolaces under Deuligo Clearge. Peace in hawse at end of watch isthe chain on top St. Cloud Stone Maridian witil, of M. Merrique West. Frein Lecreasing to Claudy Weather Logy aver land. Light ain's finous Down I D. M. At 145 Marticuld Sail, B. Farentain C. F. returned are Good Sunk to The Es over time: Ohnex chain below, at 345 Juneed sail brans in Leauxe, The Counder paid en afficial Vient to the German man of War Bismarch & Daphie. Cross we leave Atho chain an top. Decreanled Clean Lammocro. The German of War Saplie Junes a Salute of Reven guino Kunign We. A. Tb. Flrow flutel 8. 100 Overcast logg West Com & Mint Clouds, leght ains from Dior. M. Ley Mo. Cone. Raines appearance, Cleared house to Deraped lass Midnes ming of hammack lettings. Dent down los gallent yands to ments, Clear how at end of Watch Torcas & Claudy Link half gradecally Cleaning last half ment, except Let hour when to mily No. be hear hawse Examined and found to be correct.

| | | | Reading | | WIND. | | | | BAROMETER. | TEM | PERAT | URE. | State of | | lear hs. | Sea. |
|-------|--------|---------|----------------|--------------------------------------|-----------------------------------|--------|-------|---------|--------------------------------|-------------------|-------------------|----------------------|---|------------------------------------|--------------------------------|-----------------|
| Hour. | Knots. | Tenths. | of Patent Log. | COURSES STEERED by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height Ther. in inches. att'd. | Air, Dry Bulb. | Air, Wet Bulb. | Water at Surface. | State of the Weather, by symbols. | Forms of Clouds, by symbols. | Prop. of Clea Sky, in 10ths | State of the Se |
| A. M. | | | | No. E. | 76. E. | / | | | 30.1055 | 49 | 46 | | L.e. | Puru Ziz | 2 | 50 |
| 2 | | | | €. 96. €. | 11 | 1 | | | 30.08 55 | 49 | 47 | ' | " | " | 2 | 1, |
| 3 | | | | " | " | 1 | | | 30.0 7 55 | 49 | 417 | | ac. | " | 0 | " |
| 4 | | | | No. 76. E. | , " | 1 | | | 30.04 57 | 48 | 46 | | " | " | 0 | 1, |
| 5 | | | | no. by E. | Calm | 0 | | | 20.08 56 | | | | 003 | " | 0 | " |
| 6 | | | | n. E. ly. E. | 16.€ | 1 | | | 300755 | 49 | 46 | | " | " | 0 | 1, |
| 7 | | | | no. by. E. | " | / | | | 30,07 55 | -49 | 47 | _ | " | 1 | 0 | 11 |
| 8 | | | | 76. E. Sey. E. | " | / | | | 30.05 54 | 49 | 46 | | " | " | 0 | " |
| 9 | | | | E. Ly is | " | 1 | | | 300654 | 50 | 47 | - | 4 | " | 0 | " |
| 10 | | | | 1 | ", | 1 | | | 30.06 56 | | | | " | " | 0 | " |
| 11 | | | | A. E. Ly &. | Die E. | 1 | | | 30.0660 | | | | " | " | 0 | " |
| Noon. | | | | A. W. E. | " | 1 | | | 30.0254 | 52 | 49 | | 02.3.8 | " | 0 | " |
| Noon. | | | | A. by &. | " | 1 | | | 30.0207 | 52 | 49 | | 02.3.8. | " | 0 | |

| C | Course and distance made good since preceding noon by observations, | knots. tenths. |
|----|--|----------------|
| | (Latitude by D. R. | 0 , " |
| | Longitude by D. R. | 0 , " |
| Po | osition at Noon: Latitude by observations of ⊙ | . , , |
| | Longitude by chronometer from Forenoon Observations of ⊙ | 0 , , |
| | (Latitude by | 0 / // |
| Po | osition at 8 a. m. Longitude by | · , , |
| | (Latitude by | 0 / // |
| Po | osition at 8 P. M. Longitude by | 0 , ,, |
| Ci | furrent during the time, knots tenths per hour, setting to the | |
| V | Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head | 0 , " |
| y | Tariation of the Compass by Amplitude ⊙ observed at Sunset, " | · , , |
| V | Variation of the Compass by Azimuth ⊙ observed at " | • , ,, |
| V | ariation of the Compass by Azimuth ⊙ observed at " | • , ,, |
| W | Vater expended during the preceding 24 hours, | 350 gallons. |
| W | Vater during the preceding 24 hours, | a a |
| W | Vater remaining on hand fit for use at Noon, | 1.000 " |
| Co | coal consumed during the preceding 24 hours, | tons 1120 lbs. |
| Co | oal remaining on hand at Noon, | 8 " 370 " |
| | | |

| P. M. | , | | | | | | | |
|-------|---------------|-------------|----|----------------|--------|---------|---|---|
| 1 | 2. by. M. | D. M. | 1 | 30.00560148 | o.c.r. | Lun Zim | 0 | 8 |
| 2 | m. D. 12 | " | 1 | 20.01 59 50 48 | 11 | ~ | 0 | 4 |
| 3 | Dauts | South | / | 29.98 6/00 48 | r.c. | " | 0 | " |
| 4 | 11 | D. D. E. | / | 2994 61 50 44 | o.c.s. | " | 0 | 4 |
| 5 | M. Ly 16. | balu | 0 | 29.96 60 49 48 | " | " | 0 | " |
| 6 | Mich | 100.00.101. | 1 | 29.96 08 00 48 | S.c.g. | les Em | 3 | 1 |
| 7 | 10. D. M. | " | 1 | 29.94 58 49 48 | " | " | 7 | - |
| 8 | 76.70, m. | " | 1 | 29.98 58 50 48 | " | Cum Str | 0 | " |
| 9 | M. 96. m | " | 1 | 2001 58 49 48 | 4 | - | | |
| 10 | 76. M. Ey. M. | Caleu | 0 | 3001 08-49 48 | * | " | 0 | 4 |
| 11 | " | " | 0 | 20.0000 50 49 | oeg. | 4 | 0 | " |
| Mid. | 10. W. m. | " | 0 | 2000 53 51 49 | " | " | 0 | 1 |
| | | 1 | 11 | 111111 | | | | |

under the command of Commander J. D. Lewell Juntary april Ers , U. S. Navy, , 1888 . RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Commencing & lentil of all lentil of all lens from 16. E. Chear Leave A. J. Seelle Frame 4. Medil 8. allo. Decrease Claudy En Legy With Com En Brich Claude, Land En Called Les Leaves, light ains from 76. E. rafterward: Liberty party returned, gat our suiting found Deint up top gallent yands Ed Unes at 149. Color Lawree St. Comment of the Color Standard of the Color of th Levis 26. 1. 76. M. E. Jinst Least & D. by E. last Last, at 900 unitered & unspected at quarters and Chunger 76 S. R. immedeately afterwands had Battallion deile, at 10 20 The French Flag Stip Jured a Dalute of elever genes, at 1035 The German Loumoson paid an afficient Vinex to the thing of Was received With the usual Louans. Dullacked rail of Steam Pullings of Learnings. brane in Lawre, Atho chain on top To from Curing to Chair. ains from D. M. to D. D. E. Corner in Leawer Ath Chain an tap. Released by Curique allest aisis from D. M. to D. D. E. Corner in Erawie Wins Culair of Politices of Sungle and Jak.

Journal of Collins of Market Wester, Nong, balon fines Laun Laun Lower laft gallent yards

Trans of Market Medical Collins Lawre, It learns clear forms to gallent yards

January Market Medical Collins Lawre Constants

January Collins the Class the Collins Lawre Collins Lawre Collins to Collins the Collins Lawre Collins to Collins Lawre Collins to Collins to Collins Lawre Collins to Collins Lawre Collins Lawre Collins to Collins Lawre Collin dient These Examined and found to be correct. Les Galloway Navigator.

LOG of the United States Teamer Leans of Marked wie the leans of Marked Jakan

| | | | Reading | | WIND. | | | | BAROME | TER. | TEMI | | | State of | Forms of | Hear other | e Sea. |
|-------|--------|---------|----------------------|----------------------|-----------------------------------|--------|-------|---------|-------------------|--------------|-------------------|-------------------|----------------------|-----------------------------|---------------------|--------------------------------|----------------|
| Hour. | Knots. | Tenths. | of Patent Log. | by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. att'd. | Air, Dry Balb. | Air, Wet Balb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Clea Sky, in 10ths | State of the S |
| A. M. | | | | no. m. Ly no. | Calu | 0 | | | 30,00 | 50 | 50 | 48 | | S.c. Z. | lune, | 8 | D |
| 2 | | | | no. Sy n. | ligh | / | | | 29.99 | 54 | 50 | 48 | | " | Carlo | 8 | " |
| 3 | | | | no-E. | Salu | 0 | | | 49.98 | 54 | 49. | 47 | | " | li am & | | 3, |
| 4 | | | | " | " | 0 | | | 2999 | 54 | 48 | 47 | | ," , | " | 18 | ", |
| 5 | | | | €. Q. E. | " | 0 | | | 2997 | 52 | 17 | 46 | | J.e. X | " | 8 | 3 |
| 6 | | | | Cus | " | 0 | | | 2991 | 52 | 47 | 45 | | ",3 | " | 8 | " |
| 7 | | | | much | " | 0 | | | 29.98 | 52 | 48 | 46 | | " | " | 8 | , |
| 8 | | | | 0.m | D. Ley &. | 0 | | | 2999 | | , | - | | " | " | 8 | " |
| 9 | | | | D. E. Sy E. | Each | 0 | | | 3002 | 56 | 52 | 44 | 1 | J.c.3. | " | 8 | " |
| 10 | | | | Ench | . 10. m | 1 | | | 3003 | | | | | " | Sei Run | 8 | " |
| 11 | | | | D. M. | " | 2 | | | 3003 | | | | | ", | " | 8 | " |
| Noon. | | | | " | " . | 3 | | | 3003 | - | | | | " | | 80 | " |
| | | | | | | | | | | | | | | | | | |

| Course and distance | made good since preceding noon by observation | s, | knots. | tenths. | |
|----------------------|---|------------------|--------|------------|-----|
| | (Latitude by D. R. | | 0 | , " | |
| | Longitude by D. R. | | 0 | , " | |
| Position at Noon: | Latitude by observations of ⊙ | | | , ,, | |
| | Longitude by chronometer from Forenoon O | bservations of ⊙ | • | , " | |
| | (Latitude by | | • | , ,, | |
| Position at 8 a. m. | Longitude by | | 0 | , ,, | |
| | (Latitude by | | 0 | , ,, | |
| Position at 8 P. M. | Longitude by | | 0 | , ,, | |
| Current during the | | etting to the | | | |
| | mpass by Amplitude o observed at Sunrise, shi | | 0 | , ,, | |
| | | p's nead | 0 | , ,, | |
| | mpass by Amplitude o observed at Sunset, | " | | , , | |
| | mpass by Azimuth ⊙ observed at | " | 0 | , ,, | |
| | npass by Azimuth ⊙ observed at | | | 337 gallor | |
| | ing the preceding 24 hours, | | | gallor | 18. |
| Water | during the preceding 24 hours, | | . / | -1 | |
| | hand fit for use at Noon, | | | 90 " | |
| Coal consumed during | ng the preceding 24 hours, | | tons | 1/20 lb | 8. |
| Coal remaining on h | and at Noon, | | / " | 1490 | |
| | | | | | |

| P. M. | | | | | 1 | | | 1 |
|-------|-----------------|-------------|----|----------------|---------|-----------|------|---|
| 1 | D. D. M. | 2.m: | 3 | Loay 58 5749 | L.c. 3. | hi Coun | 8 6 | 2 |
| 2 | M. Sy D. | " | 8 | 30.00 38 36 50 | ," | ." | 8 1 | 1 |
| 3 | D. Mr. Ly. D. | " | 3 | 29.9959 3650 | 4. 3. | Noone | 10 4 | |
| 4 | " | D. D. M. | 3 | 29.9858 3350 | " | | 1. | |
| 5 | D. D. M. | " | 2 | 29.9857550 | ," | " | 10 " | 4 |
| 6 | mus | m.s. m. | 1 | 29.99585651 | Je.g. | luce Fred | 8 " | 4 |
| 7 | " | Calen | 0 | 29.9958 5651 | " | " | 7 11 | |
| 8 | " | Much | 1 | 2999575551 | 1, | 4 | 9 . | |
| 9 | no. 76. €. | 16.76. €. | 1 | 3005580552 | " | ar auc | 8 " | |
| 10 | 76 Ly . E. | | 1 | 3005585457 | 1. | 11 | 7 " | 1 |
| 11 | no. hr. Ly. fr. | m. Ley. 96. | / | 30.00 5 953 50 | " | lun | 70 " | |
| Mid. | no. m. Lum | Calm | 0 | 3005 575249 | | | 9 " | 1 |
| | 7 | - Car | 11 | 1 7 / | | 1 | | 1 |

Dannancer J. J. Sevell , U. S. Navy, , 1888. Medeuslay april # 155 RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Generally Course Case and Lazy, balon. Light airs from Egest. Clear hause From Hustil 8 all Clear and pleasant. Froggy aver land. Clear haw se. Al. 745. Crand top gallent yants Es landed hail to la Fourlive Read, in Pay Dept 95 lb, been. blear & pleasant & in Lour. Light airs from Each, then light airs increasing to gentle Livere & raw D. M. vat 930 inspected at quarters. Lugude For Divisions Great Gues! Pauden, Stations. Received you were in Engro dept twenty Juio Duch & Bailer Feet. Chared Leaw se. Dent Fouts and to be exercised under vans in charge of laxuaino. Destais reparted Lies time experies, al 10 45 Mortenes CS. & Sellin ney lb. S.M. actor furled Rail, Land averboard from 2nd lutter one Rowlow. Perplaced old Rathins in Fore & main rigging. Dullacked fits rail around Le aucurer nettings " Jumale, of Lut Culter, cat Warx on new bank Wais ham mock electrics Wankman from Those repaired part and lited after Water Clavets, Wankman from Coshore lugaged in Engro Dept. Lenare in Leave Atto Chain au tof Then Calin. Elhor ju Leavie Ald Chain on tap, was Annot bent down tapo gallent yands En Sent lop gallent sails Misigull S.M. A F Sechin Jeour S. Por leutil Mideright from M. Ly. No. to N. No. E. Al. dient le s. n. Examined and found to be correct. To Lacloway Navigator,

Ask

| | | | Reading | | WIND. | | | | BAROMETER. TEMPERATURE. | State of | Forms of | lear ths. | e Sea. |
|-------|--------|---------|----------------------|-------------------------------------|-----------------------------------|--------|-------|---------|--|-----------------------------|------------------------|--------------------------|-------------|
| Hour. | Knots. | Tenths. | of Patent Log. | Ourses STEERED by Standard Compass. | Direction by Standard Compass. | Foree. | Heel. | Leeway. | Height International Balb. Balb. Balb. | the Weather, by symbols. | Clouds, by symbols. | Prop. of C Sky, in 10 | State of th |
| A. M. | | | | No. 6 by 16. | Calen | 0 | | | 20.0456 5249 | J.c. | None | 10 | 5 |
| 2 | | | | Coy D. | " | 0 | | | 300456 51 48 | 11 | " | | |
| 3 | | | | 111 | 4 | 0 | | | 3001 57 49 46 | " | | 10 | |
| 4 | | | | 2" | " | 0 | | | 30.01 50 49 46 | " | " | 10 | |
| 5 | | | | E. D. E. | " | 0 | | | 20250 4949 | J.c. Z. | lun etr | 6 | 4 |
| 6 | | | | ", | " | 0 | | | 30.02524947 | " | Ex with | 6 | 11 |
| 7 | | | | m. by 16. | " | 0 | | | 20.050351 49 | " | , | 5 | 11 |
| 8 | | | | 11 | " | 0 | | | 30.05 53 57 49 | 4 | 1, | 5 | " |
| 9 | | | | M. €. | " | 1 | | | 30.06 5403 51 | 4 | " | 7 | 4 |
| 10 | | | | 6.0.6 | D. E. | 1 | - | | 30.0155-5451 | | " | 3 | " |
| 11 | | | | | " | 1 | | | 20,05060703 | 4 | " | 5 | 11 |
| Noon. | | | | D. E. Ly E. | " | 1 | | | 30.04575553 | " | " | 5 | " |

| Course and distance | made good since preceding noon by observati | ons, | knots. | tenths. | |
|---------------------|---|-------------------|--------|-------------|--|
| | (Latitude by D. R. | | 0 | , ,, | |
| 30 14 10 | Longitude by D. R. | | | , ,, | |
| Position at Noon: | Latitude by observations of ⊙ | | | , ,, | |
| | Longitude by chronometer from Forenoon | Observations of ⊙ | | , ,, | |
| | (Latitude by | | • | , ,, | |
| Position at 8 a. m. | Longitude by | | • | , ,, | |
| | (Latitude by | | • | , " | |
| Position at 8 P. M. | Longitude by | | • | , ,, | |
| Current during the | time, knots tenths per hour, | setting to the | | | |
| Variation of the Co | mpass by Amplitude o observed at Sunrise, | ship's head | • | , " | |
| Variation of the Co | mpass by Amplitude O observed at Sunset, | " | • | , " | |
| Variation of the Co | mpass by Azimuth ⊙ observed at | " | • | , " | |
| Variation of the Co | mpass by Azimuth ⊙ observed at | 44 | • | , " | |
| Water expended dur | ring the pecceding 24 hours, | | 3 | Go gallons. | |
| Water Ous | tiller during the preceding 24 hours, | | 180 | 00 " | |
| | hand fit for use at Noon, | | 24 | 50 " | |
| Coal consumed duri | ng the preceding 24 hours, | | / tons | 1670 lbs. | |
| Coal remaining on h | nand at Noon, | | 5 " | 2660 " | |
| | | | | | |

| P. M. | | | | | | 1 | ~. 7 | 1 | |
|-------|---|--------------|---|---|----------------|---------|----------|---|----|
| 1 | | A.M. Ey D | D.M.Ey.D. | 1 | 30 rg 60 58 54 | 8.C.Z. | ar au | 3 | 20 |
| 2 | | som. | Calin | 0 | 30,0260 60 36 | 6. e.g. | Que Pinh | 0 | * |
| 3 | | "0 | " | 0 | 3001 60 60 56 | 11 | " | 0 | " |
| 4 | | May n. | M.D. M | 1 | 3001 60 61 03 | " | , | | |
| 5 | | 11 | Meak | / | 2001 62-61 56 | " | " | | |
| 6 | | M.D.M. | Calcu | 0 | 300160 60 59 | " | " | - | |
| 7 | | mul | // | 0 | 30.00 60 59 56 | " | " | C | " |
| 8 | | D. M. Sylor. | " | 0 | 2000 59 59 56 | 8.0.3. | | 5 | |
| 9 | , | m. 76. m. | " | 0 | 30,00 59 39 86 | | | 0 | " |
| 10 | | , | , | 0 | 30,000959 56 | o.e. | " | 0 | 1 |
| 11 | | " | " | 0 | 29,48 59 59 52 | 1 | | 2 | * |
| Mid. | | nom. | No. 6. | / | 29945858 56 | 3.c. 3. | 1 | 2 | 1 |
| | ! | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 1 | | | | | 1 |

Cammander J. D. Jewell-, U. S. Navy, , 1888 . RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Lournereling Ed until of all bloom rase at 210, land, Colon d'estilling. ACTamestone From 4 hutil 8 aux. Cusiquell. S. M. Austry charge to await getting rober They Leaving returned from liberty of puny Minney F. D. From & all autil Meridian dient le. s. M. Partly Clear, Logy. Light airs from D. E. Lat 950 unshered Crew at quarters by abscritecs Wet out leave, Cherenied Lit. Engro & Ponder Devisions My Morning With righes God Die Machine Juno, Dent rewards of ten you each for I. R. Williams, 1.Ca, Dr. J. Dogy aier, J. F. Linx O.4/c, A. E. Kausen CAG. M. F. Murray, Bailer lunces, lo Daberico D. O. F. Ow A. Delewarenger Q.g. abrech With aux lion A Schwarenger returned 2/2 aver time. By order of the launing officer placed J. Daley, Los, Jordan S. A. J. C. Ed Taxamore S. C.F. under sentry of to corber and Thines C.A. Lei egang. Lis tern of longene ment expired. at 1000 lales all Teams by ever asid at Dais drill at 1130 pefact down with sails finded. The kerman Flagship In the happie returned from tarpedo perachice at 1100 Color Lawse. Distilling Jeridian C. 4. UMS. aueigh le. S. To. Partly Clear Let hour With Cir Cun & Atr Claudo - Oucreach With Bun & Mosinh Claus of terriardo, Calmo & legichains from m. D. M. to DM. by D. J. F. Law. S. A. 10. Tolk drunk, The former affeousover line & The latter 7/4, noused up, and responsed which Leain, gat up ald luain top sail to over hand it hais makens gaing felling Soilers & working on new part upich hammoer clother - painted who Waist hammoet cloth block. Ellow in house of end of leverque le. 8 76. Overcust En Ligy Cleaning towards end of Watch lafer Ed light air from Went of J. The french Sunboat Parseval laure in & anchored near us By order of the County Officer reliased & Daley Loo, J. Jorian, S.N. J.C, & I Passmore S.C. F. Luam sentings charge they Transing beome sober W. D. Michay Bailer wester retined & raw Leberty 11 tours over lette and light At Aunsel leux down top gallent & royal yards Es unbent light while bles Laure, Destilling. Mr. Hoggatt Grang & Mutil Medeight Curry W. W. M. Minds below will last hour When light airs and Jones out from B. M. Williams. 1. Cd. Carre an bood 13/2 hours over time, Q. Dodennes returned to ship 15 hours over time, drunk Was linging life off by Kole Police Help Leours over time Distilling, leleorie away It Sauntstone Cuseque 26. S. No. to Salloway Leux & Navigator.

| | | | | | WIND. | | | | BAROMETE | ER. T | CEMP | ERAT | URE. | | | lear bs. | Sea. |
|-------|--------|---------|---------------------------------|---|-----------------------------------|--------|-------|---------|-------------------|-------|-------------------|-------------------|----------------------|---|------------------------------------|--------------------------------|-----------------|
| Hour. | Knots. | Tenths. | Reading of Patent Log. | COURSES STEERED by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height In inches. | her. | Air, Dry Bulb. | Air, Wet Bulb. | Water at Surface. | State of the Weather, by symbols. | Forms of Clouds, by symbols. | Prop. of Clea Sky, in 10ths | State of the Se |
| A. M. | | | | n. E. | Earl | 1 | | | 29.98 0 | | | 54 | | ac. | Lun rim | 10 | 6 |
| 2 | | | | " | " | 1 | | | 29.98 3 | | | | | " | " | 0 | " |
| 3 | | | | A. M. | D. M | 4 | | | 30,000 | | | | | acq. | " | 0 | " |
| 4 | | -8: | • | M. Ly. No. | m. s.m. | 3 | | | 30,01 3 | 70 | 16 | 53 | | ocr. | " | 0 | 1, |
| 5 | | | | m. Ey D. | " | 2 | | | 30,04 5 | 80 | 57 | 54 | | ach | . " | 0 | " |
| 6 | | | | No. M. Sy m | m. 16. m. | / | | | 30000 | -70 | 77 | 54 | | acr. | " | 0 | " |
| 7 | | | | No. No. M. | , " | 1 | | | 30000 | | | | | " | " | 0 | " |
| 8 | | | | Each | Calm | 0 | | | 29.985 | 8: | 56 | 54 | | " | " | 0 | " |
| 9 | | | | " | Ench | 1 | | | 19.48 3 | 180 | 54 | 55 | | " | " | 0 | * |
| 10 | | | | -// . | " | 1 | | | 29.985 | 90 | 77 | 56 | | 11 | 11 | 0. | " |
| 11 | | 433 | | E. Ly Mo. | €. No. E. | 2 | | | 29.976 | | | | | " | 11. | 0 | A |
| Noon. | | | | . " | " | 2 | | | 29.956 | 100 | 56 | 55 | | " | " | 0 | 4 |

| Course and distance | e made good since preceding noon by observation | ns, | knots. | tenths. | |
|---------------------|---|-------------------|------------|-----------|--|
| | (Latitude by D. R. | | . 0 | , ,, | |
| | Longitude by D. R. | | 0 | , ,, | |
| Position at Noon: | Latitude by observations of ⊙ | | 0 | , ,, | |
| | Longitude by chronometer from Forenoon (| Observations of ⊙ | • | , " | |
| | (Latitude by . | | • | , ,, | |
| Position at 8 a. m. | Longitude by | | • | , " | |
| | (Latitude by | | • | , " | |
| Position at 8 P. M. | Longitude by | | • • | , ,, | |
| Current during the | time, knots tenths per hour, s | setting to the | | | |
| Variation of the Co | ompass by Amplitude o observed at Sunrise, sh | ip's head | ۰ | , " | |
| Variation of the Co | ompass by Amplitude o observed at Sunset, | " | 0 | , ,, | |
| Variation of the Co | ompass by Azimuth ⊙ observed at | " | 0 | , ,, | |
| Variation of the Co | ompass by Azimuth ⊙ observed at | " | • | , ,, | |
| Water expended du | ring the preceding 24 hours, | | ي و | gallons. | |
| Water | during the preceding 24 hours, | | | " | |
| Water remaining of | n hand fit for use at Noon, | | 200 | 20 " | |
| Coal consumed dur | ing the preceding 24 hours, | | / tons | 2120 lbs. | |
| Coal remaining on | hand at Noon, | | <i>3</i> " | 2180 " | |
| | | | | | |

| P. M. | | 04 | Ø | | | 1 | | | |
|-------|---|--------------|------------|----|-------------|--------|----------|---|----|
| 1 | | E.M. E. | le, Mo, E. | 3 | 29.90 5957 | o.c.d. | Run Mind | 0 | 50 |
| 2 | | " | " | 3 | 29.87 59 57 | " | " | 0 | |
| 3 | | 111 | " | 3 | 29.89 59 58 | re. | " | 0 | * |
| 4 | | n. E. Ly M. | " | 3 | 29.88 60 54 | acd. | " | 0 | |
| 5 | | No. E. Ly E. | " | 2 | 29.87 60 98 | "/ | " | 0 | |
| 6 | | 6.46.6. | " | 2 | 29.875958 | " | " | 0 | - |
| 7 | | no. E Sun | " | 3 | 29.855908 | " | " | 0 | |
| 8 | | No. by E. | " | 3 | 29.86.59 57 | " | * | 0 | |
| 9 | | 768. | №.6. | 2 | 29.88 59 58 | ac3 | " | 0 | |
| 10 | | 1. E. E. E. | " | 2 | 29.89.59 58 | 6.09. | 4 | / | * |
| 11 | | " | , | 2 | 29.88 79 38 | 8.6. | | 3 | - |
| Mid. | | 26.6. | , | 2 | 29,09 59 58 | " | Cumsto | 7 | " |
| | 1 | | | 11 | | | | | |

under the command of Commander J. J. Jaevell Strikay africe 6 75 , U. S. Navy, , 1888 . RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Commences as until 4 and Last suddenly increasing to inoterate General from S. M. there header ating to gentle bruge from M. S. M. Clar hause. Dutilling France of Gutil & Clets To M. M. M. Cleaned Sieges. Received You insure in Pay Dept 1185/4 els each of frush but Ed Vegatables, and 95 els of frush Erend, at 850 leaned tap galleur Est royal yorks Selow in Lawse Wift Atarpans chain on top J'ram 8 all Wetil Meridian Cling n. Ulst. Overcust claudy to rainly With lume to Mint. Cloud? Light ains from Carl first back, light 6. M. E. Truge cafferwards, Chosed teawns, Moustered at quarkers at 930, absent with auch leave, Thas Braderies, Dea, Est M. Fitzgerall, CN, Yan What apprehension remards were sent on share, Went to fire quarkers jak gos fint A tream 480 become streamo 100, after Which unstered for abouton ship, Drelles Tampelo Dis val Stations. Stowing gear in face Gold, Cleaning Filges in Enqueers Deportunal. Ty and or of laundy Officer relianed C. Taheneres, Colon fram Deutry's change. Slipped Subilling at 1029 & Laured Juris cat 1045. Clear Lawse at end of Wately Firam Meridian Westil of Pon. Derecas & Claudy With druggling rain, Gentle Gruge & row 6. 76 E. Dy ander of Country afficer, placed fas Fan an, M. Sudr, under the Dentryo charge The Country charge The Country Charge The Country Charge The Country Charge The Prench Wan. af. mar. Parewal faid an Afficine Went to the Thip. Clear Leaw se Thip bliss Law se Overcust with and to into Claudo. Druggling, rain, Light to gentle from H. Cutil. 8. C. Dog. Cenque Mish. Laurenie J. Brahmick, Sea, & M. Fritzgerald. CAVO, Were Exaught an Saand by the Robe Palies in Causquence of an offered reward The Jarmen 13/2, the letter 26 seams over time. At Chambtone bless tecesse au 8 Ood luctel Wedinger Claudy Cleaning away gradually. Light Treeze fram to E. Cher Laure Examined and found to be correct. ED Gallowaye Nivigator.

| | | | Reading | | WIND, | | | | BAROMETER | R. TE | MPERA | TURE. | State of | Forms of | Hear ths. | e Sea. |
|---------|--------|---------|----------------------|--------------------------------------|-----------------------------------|--------|-------|---------|-----------------------|----------|-------------------|----------------------|-----------------------------|---------------------|------------------------------|-------------|
| Hour. | Knots. | Tenths. | of Patent Log. | COURSES STEERED by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. The | Air, Dry | Air, Wet Bulb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Cle Sky, in 10th | State of th |
| A. M. | | | | n. n. E. | M. M. | 1 | | | 298159 | 9 50 | 856 | | S.e. | lunt | 8 | 0 |
| 2 | | | | m. by M. | much | 1 | | | 29.86 5 | 95 | 155 | - | " | 11 | 9 | " |
| 3 | | | | " | " | 1 | | | 2986 51 | 950 | 6 54 | 4 | 1 | " | 8 | ", |
| 4 | 30 | 98 | | m. 76. m. | " | 1 | | | 24.88 59 | 753 | 503 | | " | " | 7 | |
| - 5 | | | | 76.17. Ly.16. | Calu | 0 | | | 29.90 5 | | | | L.C. 3. | Ruse | 5 | " |
| 6 | | | | " | " | 0 | | | 29.92 53 | 733 | 1-53 | | " | liram | 6 | |
| 7 | | | | M. 76. M. | | 0 | | | 24.94 5 | 95 | 453 | | - | ." | 7 | 4 |
| 8 | | | | D. by m. | Day m. | 1 | | | 29.9657 | | | | " | ar ann | 7 | 44 |
| 9 | | | | 10. 10. m | 2. 2. m | 1 | | | 29.96 59 | | | | 11 | " | 8 | " |
| 10 | | | | " | " | 1 | | | 29.96 60 | | | | " | " | 9 | " |
| 11 | | | | "/ | , | 1 | | | 29.9460 | _ | | - | | " | 7 | " |
| Noon. | | | | D. Mr. Ly D. | , | 2 | | | 29.93 60 | - | _ | _ | " | " | 6 | |
| A100II. | | - | | 00.11 29 00, | | | | | | | | 1000 | | 3 | 100 | |

| Course and distance made good since preceding noon by observations, | knots. tenths. |
|--|----------------|
| (Latitude by D. R. | 0 / // |
| Longitude by D. R. | · , ,, |
| Position at Noon: Latitude by observations of ⊙ | 0 , " " |
| Longitude by chronometer from Forenoon Observations of ② | o , , |
| (Latitude by | • , ,, |
| Position at 8 a. m. Longitude by | 0 1 11 |
| (Latitude by | 0 , " |
| Position at 8 P. M. Longitude by | o , , |
| Current during the time, knots tenths per hour, setting to the | |
| Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head | • / " |
| Variation of the Compass by Amplitude ⊙ observed at Sunset, " | · , , |
| Variation of the Compass by Azimuth ⊙ observed at " | · , , , |
| Variation of the Compass by Azimuth ⊙ observed at " | • " " |
| Water expended during the preceding 24 hours, | 350 gallons. |
| Water during the preceding 24 hours, | u |
| Water remaining on hand fit for use at Noon, | 2/50 " |
| Coal consumed during the preceding 24 hours, | tons 400 lbs. |
| Coal remaining on hand at Noon, | tons 400 lbs. |
| | |

| P. M. | | | | | 1 | | | |
|-------|---------------|----------|----|----------------|--|----------|--------------|---|
| 1 | A.D. M. | D. D. M. | 2 | 29.92 63 61 57 | 4.c. 3. | ai aun | 6 | 6 |
| 2 | A.M. | A.M. | 3 | 24.92646257 | " | ", | 5 | " |
| 3 | D. M. Ley. M. | " | 3 | 2990 65 63 58 | " | " | 4 | " |
| 4 | D. M. | " | 3 | 29.91 66 65-09 | " | " | | |
| 5 | Manth | Month. | 3 | 24.90 67 66 38 | " | ai Stout | and the same | |
| 6 | " | " | 2 | 29.91 66 66 08 | " | " | | |
| 7 | n.n. 8. | , " | 1 | 29.9264 6458 | ,,, | | | |
| 8 | 6. 96. 6. | le alue | 0 | 2993 63 63 08 | " | 10 | 8 | 1 |
| 9 | 6. Ly 16. | " | 0 | 29.9761 61 58 | 1. | " | | |
| 10 | M. Ly D. | " | 0 | 29.98 59 59 55 | 1" | " | 8 | " |
| 11 | m. Hem. | " | 0 | 24.98 58 58 54 | 3.3. | none | 10 | " |
| Mid. | no. Ly m. | 4 | 0 | 29,98 57 56 53 | ., | " | | |
| | | | 11 | | 13 7 F 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | 1 | 1 |

Daturday africe 7th , U. S. Navy, , 1888 . RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Commences Es lustic of all blear & last. Light ains from 16.11. Es Mund, blear Laure From If levil & all Design Est flower blows & lun & Maint 18 hour and Low Pour Day M. Low and Low form afterwards, balen until land hour, when light airs land and from Day M. dibaty party returned. Received for inne to Crew 95 the fresh weed, because in house at McPourestone. JEA. Feelin Alfamistone. end of Watch From Situatil Marediace Surger long Surger lo. D. M. College wied Explessant Weather Light airs increasing to legal breeze from D. D. M, at 850 lassed sail to a bowline, aired desding & Derved out Clian hawing at 10 00 Went to quarters and inspected Jago at Clashing, Say unter of Counting Officer religion Jas Noran, m. Tudo, Horas Sentryo Charge. The Common Officer Said an afficial, to The French Sundant Par swal, The Common of officer of N. J. 9. M. Diep Carola pais any official Visit of this ship. A hellacked wight wood- work of second Cutter to wars un hawse at end of Watch fant Clair au tap Morons Meridian Until 4. PM. Europe The Surge Trom D. M. Fair, Loggy wound havingen. Pleasant Light to gentle Greege from D. M. A. Selling Jour Mo E. Calin last hour. Clear Lianese The Sunte General ing to light ains dient lb. S. M. Moone Frank. Por Uletil Madingles Clear Cane. Calm. Clear Lawre Merriga Eles. M. CA & Delutilu deent 26. S. M. Examined and found to be correct. Ten Galloway E Navi

| | | | Danding | | WIND. | | | | BAROME | TER. | TEMI | PERAT | URE. | State of | Forms of | Hear ths. | e Sea. |
|-------|--------|---------|---------------------------------|----------------------|-----------------------------------|--------|-------|---------|-------------------|--------------|-------------------|-------------------|----------------------|-----------------------------|---------------------|------------------------------|-----------------|
| Hour. | Knots. | Tenths. | Reading of Patent Log. | by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. att'd. | Air, Dry Bulb. | Air, Wet Bulb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Cle Sky, in 10th | State of the Se |
| A. M. | | | | St. Ley. D. | Calm | 0 | | | 30,00 | | | | | 103 | Lun | 9 | 6 |
| 2 | | | | " | | 0 | | | 30,00 | | | | | " | " | 8 | " |
| 3 | | | | A. M. Ly M. | | 0 | | | 29.98 | 53 | 53 | 50 | | " | " | 8 | " |
| 4 | 600 | 30 | | A. D. E. | * | 0 | | | 29.97 | 54 | 53 | 57 | | ," | 4 | 8 | " |
| 5 | | | | 2.6. | " | 0 | | | 29.90 | 53 | 53 | 50 | | J. c. X. | Lune | 8 | " |
| | | | | E. S. E. | | 0 | | | 29.94 | 54 | 53 | 49 | | ", | " | 4 | " |
| 6 | | | | " | " | 0 | | | 29.94 | | | | | " | " | 6 | 11 |
| 0 | | | | D. E. 34 E. | ~" | 0 | | | 29.96 | 56 | 55 | 07 | | 1- | " | 5 | 4 |
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| 9 | | | | 6 Jul. 0 | and " | 1 | | | 39.00 | | | | | ",0 | " | 4 | " |
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| 11 | | | 1303 | D.M. | Mr. Ley no. | 3 | | | 39.99 | | | | | 4 | " | 8 | U |
| Noon. | | | | 00.777. | 7, 29, 0. | | | | | | | 1100 | | | | | |

| Course and distance | made good since preceding noon by observations, | knots. tenths. | |
|---------------------|--|----------------|--|
| | (Latitude by D. R. | 0 , 1 , 11 | |
| | Longitude by D. R. | 0 / 1/ | |
| Position at Noon: | Latitude by observations of ⊙ | 0, , , 3 | |
| | Longitude by chronometer from Forenoon Observations of ⊙ | 0 , " | |
| | (Latitude by | 0 / // | |
| Position at 8 a. m. | Longitude by | 0 / //. | |
| | (Latitude by | 0 , 11 | |
| Position at 8 P. M. | Longitude by | 0 , " | |
| Current during the | | | |
| | mpass by Amplitude o observed at Sunrise, ship's head | 0 , " | |
| | | · , ,, | |
| | npass by Amphitude & observed at Sunset, | 0 / " | |
| | npass by Azimuth & observed at | 0 , " | |
| | npass by Azimuth © observed at | 35-0 gallons. | |
| | ing the preceding 24 hours, | 1400 " | |
| Water | during the preceding 24 hours, | // " | |
| | hand fit for use at Noon, | | |
| | ng the preceding 24 hours, | tons 400 lbs. | |
| Coal remaining on h | and at Noon, | 0 "7000" | |

| The same of the sa | | | | | - | - | CAN BE SHOULD BE SHOULD BE | The state of the state of | | |
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| 1 | M. D. n. | r. M. D. M | 3 | 29.99 6 | 6665 | 60 | L.C.3. | ar Em | 6 | 0 |
| 2 | D. m. by | m. m. m | 3 | 29.97 6 | | | b.e.z. | " | 5 | " |
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| 6 | Much | West, | đ | 29.96 6 | | | * | Post Risul | 3 | " |
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| THE RESERVE TO THE PARTY OF THE | | | | The state of the s | | | The second secon | | | |

under the command of Caucuauder J. D. J. Ewell Aunday april 8th , U. S. Navy, , 1888 . RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Commences & lutil H. all. Generally clear, Gogy & pleasant balue brue in house four hain on tap Tram if lutel 8 aux balon. Elewed for usine in Pay Department in law se form chain on top Translated Meridian from Energy fresh trees brane the gent fless of from Energy from the bless by flessant, higher aims from Energy from the trees forms the grant the gentle breeze from M. S. M. J. S. Commander unperter ship with crew at quarters. Lemma in have starboard chain on top

M. J. J. M. Br. Meridean to 4 PM Senerally clear, Every. Gentle to underste Errege Grown M. D. M. C. A. G. returned Gram liberty of much by ordin of the Commondy affices was placed under Dentry's charge to saber. Nils Divine Dervice, Caire in Lawre Atanbord chain on top. chain on top. From of Until 8. PM. Entle Greege from West. Crase in Garde part chain on take Pleasant, Light ains and Greege fram. M. D. M. 28 Ment in Grant watch and of watch Dearbord chain on tap Miltoggatt Examined and found to be correct. Lew Galloway Navigator

| | | | | | WIND. | | | | BAROME | TED | TEM | DPDAT | HIDE | | The same | - | 4 |
|-------|--------|---------|---------------------------------|--------------------------------------|---------------------------------------|--------|-------|---------|-------------------|-----|-----|-------|------|---|------------------------------------|--------------------------------|-----------------|
| Hour. | Knots. | Tenths. | Reading of Patent Log. | COURSES STEERED by Standard Compass. | WIND. Direction by Standard Compass. | Force. | Heel. | Leeway, | Height in inches. | | | | | State of the Weather, by symbols. | Forms of Clouds, by symbols. | Prop. of Clea Sky, in 10ths | State of the Se |
| A. M. | | | | Meek | Much | 1 | | | 2996 | 63 | 62 | 59 | | rez. | Cun & | 0 | 0 |
| 2 | | | | " | ," | 1 | | | 29.96 | | | | | Yes | Shimb | 2 | ** |
| 3 | | | | D. M. Ly. D. | Calen | 0 | | | 29.96 | | | | | ,0 | , | 4 | " |
| 4 | | | | A. 6. by. D. | . 11 | 0 | | | 29.96 | 64 | 62 | 60 | | " | " | 6 | " |
| 5 | | | | D. E. | , | 0 | | | 29.96 | 61 | 61 | 58 | | " | Str. and Missel | 6 | * |
| 6 | | | | E by B. | 11 | 0 | | | 29.96 | 60 | 60 | 58 | | " | Cor. Cum | 5 | 7 |
| 7 | | | | E by n. | 1 | 0 | | | 29.98 | 61 | 61 | 60 | | " | .4 | 5 | 4 |
| 8 | | | | 6. by. D. | " | 0 | | | 30,00 | 63 | 62 | 60 | - | | " | 4 | " |
| 9 | | | | A. E. Ly . E. | " | 1 | | | 30,00 | 64 | 63 | 60 | | * | " | 4 | 4. |
| 10 | | | | 6.0. 6. | €. S. €. | 1 | | | 20,00 | | | | | " | 11 | 6 | |
| 11 | | | | D. D. E. | A.E. | 1 | | | 20.00 | 66 | 65 | -61 | | ', | * | 6 | 1. |
| Noon. | | | | " | " | 1 | | | 30,00 | 69 | 64 | 63 | | " | 4 | 5 | * |
| | | | | | | / | | | | | - | | | | | | |

| Course and distance | made good since preceding noon by observations, | | knots. | | tenths. |
|---------------------|---|----------|--------|------|----------|
| | (Latitude by D. R. | | | , | " |
| | Longitude by D. R. | | | , | " |
| Position at Noon: | Latitude by observations of ⊙ | | | , | " |
| | Longitude by chronometer from Forenoon Observati | ons of ⊙ | | , | " |
| | (Latitude by | | | , | " |
| Position at 8 a. m. | Longitude by | | • | , | " |
| | (Latitude by | | | , | " |
| Position at 8 P. M. | Longitude by | | 0 | , | " |
| Current during the | | the | | | |
| Variation of the Co | mposs by Amplitude observed at Sunrise, ship's head | | | , | " |
| Variation of the Co | mpass by Amplitude ⊙ observed at Sunset, " | | | , | " |
| | mposs by Azimuth ⊙ observed at " | | 0 | , | " |
| | mpass by Azimuth ⊙ observed at " | | | , | " |
| Water expended dur | ring the preceding 24 hours, | | (| 350 | gallons. |
| Water | during the preceding 24 hours, | | | | " |
| Water remaining on | hand fit for use at Noon, | | 13 | | 1 " |
| | ng the preceding 24 hours, | | tor | 15 4 | vo lbs. |
| Coal remaining on h | | | 3. | 9 | 00 lbs. |
| | | | | 1 | |

| P. M. | | | | | 1 | | |
|-------|-----------|----------|-----|----------------|---------|---------|------|
| 1 | 2.2.6. | Davith_ | / | 30.00 69 67 63 | J.c. g. | ai and | |
| 2 | " | , , | / | 29.99 69 67 63 | " | Maid of | 6 " |
| 3 | " | balu | 0 | 29.98 6 6763 | " | 1 4 | - 11 |
| 4 | m.D.m. | | | 29.94 79 68 63 | " | as au 6 | " |
| 5 | 16.76 m. | no by m. | / | 29.96 68 64 61 | " | " 6 | " |
| 6 | D. D. M. | Calu | 0 | 29.98 66 67 61 | | " 5 | 1 |
| 7 | D.M. | " | 0 | 29.98 64 65 61 | " | " 4 | / |
| 8 | " | " | 0 | 2999 6/63 59 | " | " 4. | |
| 9 | 10. by m. | D.M | / | 30,00 6/6/57 | " | " 6 | " |
| 10 | €. | " | / | 309 61 60 56 | " | " 6 | |
| 11 | | Sens | 1 | 30m 59 60 57 | " | ~ 2 | |
| Mid. | | n. 6. | 1.2 | 3000 5958 55 | " | . 5 | " |
| | | | 1 | | | | |

under the command of Cammander. D. D. Jewell Monday april 9th

, U. S. Navy, , 1888. .

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Somewer ces & lutil of all. Jartly Clear afterwards, Claudo lun Ers mind fory, book, Light airs from West first front Calm afterwards. Elbors in Leawse & The A. Coundatone. From if little & all General, Logy around Lanigen, Calen. Char Leave Remed for Serve Dolla fired Great Great C. lamphell. C. N. 9 In Group Rober A. F. Selling in Pay Dept the fallowing stores. 600 who Nand Bread. Backs Flour I was the Dack Pork. Los las Dalf Buy 72 lbs Bulla 552 lbs Canned heat, Jas eles Racon 122 lbs Cos Fiel · 300 Riches To Galls Vinegot, 76 lbs Canned Vegatables 85 lbs Dried Freit Das lhe Ham. 500 lho Caffee 63 lls Trea 2 sfar els ougan 75 Julis Malarnes 60 Zallo Beaus 150 lho Rice Too lho Caustio. Juspected & passed by Board of Suspection of Which PA. Paymenter N.R. Dunk was senior humber. Beenod in Engra Dept. 182 the Brown Lead unfected and paraet, suif Engineer 9.00. Shiris Denies member of the hoord. Cychanged immbers west the 16. D. A Juneta. At 10 so. The Juneto Came to Dalufed the part French admiral to German Commotore. The Commanding officer Visited the Junate. Sy orter of the Comming afficer released. G.F. Comingham, Los, from Confinement to ross in Laws with chain on top From Maerisian Mutil. If PM. Ci ann Ex occasional Mind Clouds. Nagy. Pleasant. Light airs from Rant first part lalen afterwards. Showed provisions in fore hald Es dry store-room. The lowers of Head of Head on bood Shipped for Cruise as Landouran, Ania A. Dimons, brase in Lawse at End of Watele Attaymostone. Recurd from Junato M. F. M. Cullen 1. C.A. Ed Mer Dunt, Den, Weth are Mescury Japers. Crass in Lawre Starbard Chain on Fago Meltoggatt luxique l. S. n. Fram & m. Lentil Medergal Variable airs, blue Lawse at end of Watch. Hogy look dight Chambtone asign U.S. M.

Examined and found to be correct.

Ten Salloway Navigator

LOG of the United States Steamer Case Take Rate, Mannes in the Garbar of Kabe Japan

| | | | | | WIND. | | | | BAROME | ETER. | TEMI | PERAT | TURE. | State of | Forms of | lear ths. | 200 |
|-------|--------|---------|---------------------------------|--------------------------------------|-----------------------------------|--------|-------|---------|-------------------|--------------|-------------------|-------------------|----------------------|-----------------------------|---------------------|--------------------------|------------|
| Hour. | Knots. | Tenths. | Reading of Patent Log. | COURSES STEERED by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. att'd. | Air, Dry Bulb. | Air, Wet Balb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of C Sky, in 10 | Stateofthe |
| . M. | | | | 76. E. Ly E. | M. E. | 2 | | | 29.99 | 60 | 58 | 54 | | arel. | Carra Trime | 0 | £ |
| 2 | | | | 6.76.6. | " | v | | | 29.99 | 60 | 57 | 54 | | ," | | 3 | |
| 3 | | | | E. En 16. | E. Ly . 96. | 2 | | | 29.98 | 60 | 24 | 53 | | 4. c. | | 2 | |
| 4 | | | | €. 5. € | " | 2 | | | 2997 | 59 | 54 | 55 | - | " | 4 | 0 | |
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| 6 | | | | 7 | " | 2 | | | 29.94 | -60 | 59 | 56 | | " | | 0 | |
| 7 | | | | " | 1 | 2 | | | 29.95 | -60 | 59 | 57 | | * | | 0 | |
| 8 | | | | " | " | 2 | | | 29.95 | -61 | 60 | 58 | | 0.0.4 | | 0 | |
| 9 % | | 53 | - | " | E. 76. E | 2-4 | | | 2991 | 61 | 60 | 58 | | acgo, | Minh | 0 | |
| 10 | | | | | " | 2-4 | | | 29.88 | 61 | 60 | 58 | | " | " | 0 | |
| 11 | | | | 76. €. Ly. €. | , | 3-4 | | | 29.86 | 61 | 61 | 59 | | " | 4 | 0 | |
| Voon. | | | | 1000 | 4 | 3-4 | | | 29.84 | | | | | " | 11 | 6 | |
| NOOH. | | | | " | | | | | 1 | 1393 | | | | | | | |

| Course and distance made good since preceding noon by observations, | knots. tenths. |
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| (Latitude by D. R. | 0 1 11 |
| Longitude by D. R. | 0 , 11 |
| Position at Noon: Latitude by observations of © | 0 , " |
| Longitude by chronometer from Forenoon Observations of ⊙ | 0 , " |
| (Latitude by | 0 , " |
| Position at 8 a. m. Longitude by | . , , |
| (Latitude by | 0 , " |
| Position at 8 P. M. Longitude by | 0 , " |
| Current during the time, knots tenths per hour, setting to the | |
| Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head | 0 / // |
| Variation of the Compass by Amplitude ⊙ observed at Sunset, " | 0 ', " |
| Variation of the Compass by Azimuth ⊙ observed at " | 0 / // |
| Variation of the Compass by Azimuth ⊙ observed at " | 0 / // |
| Water expended during the preceding 24 hours, | 350 gallons. |
| Water during the preceding 24 hours, | u |
| Water remaining on hand fit for use at Noon, | 1000" |
| Coal consumed during the preceding 24 hours, | 1000 " tons 400 lbs. 3 " 580 " |
| Coal remaining on hand at Noon, | 3 " 580 " |
| | |

| P.M. | | ~ | | | | | | | | |
|------|---------------|-----------|-----|----------|------|----|---------|------|-----|-----|
| 1 | 6.76.8. | E. 76. E. | 3 | 29.81 62 | 61 | 59 | 0.09.2. | Hins | 0 | Pom |
| 2 | " | " | 3 | 29 74 62 | 61 | 19 | " | 1 | 0 | |
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| 4 | " | * | 3 | 29.7462 | 61 | 59 | " | | 0 | " |
| 5 | No. E. Ly. E. | " | 3-4 | 2973 62 | 2 61 | 59 | " | | 0 | |
| 6 | €. 96. €. | * | 3-5 | 29.72 61 | 60 | 28 | " | | 0 | - |
| 7 | 4 | " | 3-5 | 29.71 61 | 60 | 18 | " | | 0 | - |
| 8 | | " | 3-5 | 29.40 61 | 60 | 38 | " | | 0 | * |
| 9 | " | " | 4 | 29.69 60 | 60 | 59 | " | | 0 | - |
| 10 | " | " | 4 | 29.69 60 | 60 | 59 | ', | | 0 | - |
| 11 | * | " | 3 | 29.68 61 | 60 | 59 | our. | | 0 | |
| Mid. | * | * | 3 | 29.70 61 | | | " | | 0 | " |
| | | | 11 | 111 | 1 | | | | 100 | - |

under the command of Cammander J. J. Jawelle Junday april 10 th , U. S. Navy, RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Commiences Extentil of all hay. Light Truge from No. E. 948 & Sy. 76. Cher hawne The Story Firmer of Gutil & act Musigle le s. M. Overcast unisty Es raining. Light Errege & by no. Beenves for issue in Pay Dept 122 / the Each of Yrest Gel Led Vegatable 20 95 lles of freeh Erend. At 610 the French Flagship Turcune left the Gearbon. German Verell gat under Weigh Es Dleaned up the Say at 7.50. Clear hause lucigu 26. S. 76. Fram Palis with Menis ian Over Cart With minbus Clauds. Cantinual raise. Igually. dig Est to heaverate treeze from E. M. E. in occanonal light squalls, iat 930 trushered ial quarters. Mase Rigual Neumeral, Three (Sier Report) to 26 S. S. Junata, Enuls foron quand flag Recurso one Fruit shore (18 inches) his landruction dept. I. J. B. m. Dup's Carola and Daphie returned to Their anchorages, Coal-lighter laws along sist at 1/25. Recured the fallowing Medical Rhore. Acucia Puly for 9.m. Acis Carbal Cryo 100. 9.m. Leis Carbal Sup 2000 heid Citric 100 9m. Acid Tannici 100 Em. Acid Torter 400 Em. Acanile Rad Fild East 50 Euc. Alteres Spir nil to kur. Alcalal C.C. Hoos Alum Gu Ioo armanina ag for Bur un munia spin arannal 200 In Annuaira Carbonate 200 In Aumania Calonde 200 Em Argenti Mediatis 25 Bu Argenti Fines Jo Bur Burmette Supciel 100 Em Bur lin Fild lot 4 00. Im Camptor 200 Em Canthandis To. 50. Chlorfan Just 1000 Sur. Celorifau Pine Goo. Sur. Centians F. E. Camph. 400 Em. Comance Olico 25 Em. Callodium 50. In, Capabio ion Em. Cormalin 2500 Em Creta Brep 50, Em Farri Cherin To ano Em Bentian F.E. Camp for Cot Elycrin for 8:m. Elycyre ligal Et Por Em Hyeyorhigie Red into 100 Euro Nigoria Conschlor 25 Keus Augaria lhler Mills 50 Euro Najoroia nie augh 50 Euro Agoria 2009 h Has Jun. Lodinum 25 Bus Lodofores 50 Bus I pacae wanter F. E. 50 Euro, Lini Farini 189,10, Lunus, 18.9,2. Mag maci Sulph 1 . 9. 4. Meulte Rip olio Gen 25: Mountain Olio A. 7. 6. Olive alio Lit. 2. april Jeule 100 Que opis Time 1000 Bun apis Time Comph 2000 June, Repaire 25 Em, Pil at Compo To Jun Planchi acel 400 Sun Pater acis 400 Jun Pater Bi chumal 200. Beno Patare Bi Taix Loc Jus Patare Brank Hos Jus, Peall Patars. In Sus. Potare El via Tail Dans Eure. Dape Dons Jus. Dape. Sumanusuhum Loso Eur Dalle Lynnys. 2000 Sur. Paregat: l. 200 Sun. Durapeis Euro Forts. Door Bicars enat 1000 Sec. Dota Boras Hos zon Deepher soo am Terbrutt Olio L.I.7 Valen au T.E. Sen. Zunci paie 25 Sun. Zamiri Rucht. To Em Jung bras Fi E. 400 2m. Apto Vim gallei KT. 3. Apto French C+ J. Vim Exici A+ J. Penals hairle Planter Design Rolls Rengile 100 Sall. Cores boul 50 Cores Viac 150 Pill Bayes proper 15 File Gayes Wood 15 Vials bo Buskels & Euclopes afficus To Sun Black to Batilos Lead facucilo 5 Paper Joalacup 10 quires. Moundstone tungle le. M. 16. Mundeau lute H. m. Tornant blowly trainey Swith Group from E. B. E. Dogaally, moderate swell of rou lent bry gun cultur & Bellery & found all in good conductions. Coaling ship at send of watch Read in Equipment dept 24/2 lotes of ancithrets Goe. I live haure To for the Cog le U. A. M. 4 levetil 8 Mi. Overcast With nimb Claude, Court Direct Le cary rain. Levels to stiff Truge in light to wood Aquallo from & 76. E. Weather un rettled in afopearages, Firmshed Galing Leaving Received in all 25 that long, be lear Leavese at End of Watch Militouratione Curryu le W. M. 8 m. wittle Misniglet E. ME Lelian Learnes at eur of Wahely Change Market were away to gentle Energe fram Hy Loopen Tus n. Les Galloway Leux & Navigator.

LOG of the United States Deacuer Essig 3,8 Rate,

| | | | | | WIND. | | | | BAROME | TER. | TEM | PERAT | URE. | | | 4. | - 10 |
|-------|--------|---------|------------------------|---|-----------------------------------|--------|-------|---------|-------------------|------|-----|-------------------|----------------------|---|------------------------------------|--------------------------------|-----------------|
| Hour. | Knots. | Tenths. | Reading of Patent Log. | COURSES STEERED by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | | | Air, Wet Bulb. | Water at Surface. | State of the Weather, by symbols. | Forms of Clouds, by symbols. | Prop. of Clea Sky, in 10ths | State of the Se |
| A. M. | | | | E. n. E. | E. No. E. | 3 | | | 29.64 | 61 | 60 | 59 | | aer, | Dimi- | 0. | 6 |
| 2 | | | | " | " | 2 | | | 29.62 | 61 | 60 | 99 | | " | " | 0 | " |
| 3 | | | | E. Ly. no. | ,, | 1 | | | 29.62 | 61 | 60 | 59 | | " | 1 | 0 | |
| 4 | | | | M. Sy. D. | Mus | 2-3 | | | 29.62 | 61 | 60 | 59 | | acqu. | 4 | 0 | - |
| 5 | | | | Week | 11 | 3-4 | | | 29,65 | 61 | 60 | 58 | | re, | " | 0 | |
| 6 | | | | M. Sy. D. | " | 3 | | | 29.68 | 61 | 60 | 08 | | Le. | | 0 | - |
| 7 | | | | " | , | 5 | | | 29.78 | 60 | 54 | 54 | | 8 09. | Cir, Cum Uimb | 4 | |
| 8 | | | | " | " | 34 | | | 29.75 | 60 | 57 | 54 | | " | " | 3 | - |
| 9 | | | | M. M. M. | m. n. m. | 3-5 | | | 29.78 | | | | | " | " | 4 | - |
| 10 | | | | M. Ey. 76 | Much | 9-4 | | | 29.81 | 60 | 58 | 54 | | " | • | 3 | - |
| 11 | | | | M. Ly 00 . | " | 3 | | | 29.82 | 61 | 59 | 54 | | " | Cir, Cun | 6 | - |
| Noon. | | | | " | 4 | 3 | | | 29.83 | | | | | Leg. | 11 | 6 | - |
| | | | | | | | | | | | | | | | | | |

| Latitude by D. R. Longitude by D. R. Longitude by observations of ⊙ Longitude by chronometer from Forenoon Observations of ⊙ Longitude by Longitude by Longitude by Longitude by Longitude by Longitude by Current during the time, knots tenths per hour, setting to the Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head Variation of the Compass by Azimuth ⊙ observed at Variation of the Compass by Azimuth ⊙ observed at Water expended during the preceding 24 hours, Water during the preceding 24 hours, Water remaining on hand fit for use at Noon, | | | |
|--|--------|-------|----------|
| Latitude by D. R. Longitude by D. R. Latitude by observations of ⊙ Longitude by chronometer from Forenoon Observations of ⊙ Longitude by Position at 8 a. m. Latitude by Longitude by Longitude by Longitude by Longitude by Current during the time, knots tenths per hour, setting to the Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head Variation of the Compass by Amplitude ⊙ observed at Sunset, " Variation of the Compass by Azimuth ⊙ observed at " Variation of the Compass by Azimuth ⊙ observed at " Water expended during the preceding 24 hours, Water during the preceding 24 hours, Water remaining on hand fit for use at Noon, | knots. | | tenths. |
| Position at Noon: Latitude by observations of ⊙ Longitude by chronometer from Forenoon Observations of ⊙ Longitude by Position at 8 a. m. Latitude by Longitude by Longitude by Current during the time, knots tenths per hour, setting to the Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head Variation of the Compass by Azimuth ⊙ observed at Sunset, " Variation of the Compass by Azimuth ⊙ observed at " Variation of the Compass by Azimuth ⊙ observed at " Water expended during the preceding 24 hours, Water during the preceding 24 hours, Water remaining on hand fit for use at Noon, | 0 | , . | " |
| Position at Noon: Latitude by observations of ① Longitude by chronometer from Forenoon Observations of ② Position at 8 a. m. Latitude by Longitude by Longitude by Current during the time, knots tenths per hour, setting to the Variation of the Compass by Amplitude ② observed at Sunrise, ship's head Variation of the Compass by Amplitude ② observed at Sunset, " Variation of the Compass by Azimuth ② observed at " Variation of the Compass by Azimuth ② observed at " Water expended during the preceding 24 hours, Water during the preceding 24 hours, Water remaining on hand fit for use at Noon, | 0 | , | " |
| Longitude by chronometer from Forenoon Observations of ⊙ { Latitude by | • | , | " |
| Position at 8 a. m. { Longitude by Longitude by Current during the time, knots tenths per hour, setting to the Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head Variation of the Compass by Amplitude ⊙ observed at Sunset, " Variation of the Compass by Azimuth ⊙ observed at " Variation of the Compass by Azimuth ⊙ observed at " Water expended during the preceding 24 hours, Water during the preceding 24 hours, Water remaining on hand fit for use at Noon, | 0 | , | " |
| Position at 8 a. m. { Longitude by Longitude by Current during the time, knots tenths per hour, setting to the Variation of the Compass by Amplitude © observed at Sunrise, ship's head Variation of the Compass by Amplitude © observed at Sunset, " Variation of the Compass by Azimuth © observed at " Variation of the Compass by Azimuth © observed at " Water expended during the preceding 24 hours, Water during the preceding 24 hours, Water remaining on hand fit for use at Noon, | 0 | , | " |
| Position at 8 P. M. Longitude by Current during the time, knots tenths per hour, setting to the Variation of the Compass by Amplitude © observed at Sunrise, ship's head Variation of the Compass by Amplitude © observed at Sunset, " Variation of the Compass by Azimuth © observed at " Variation of the Compass by Azimuth © observed at " Water expended during the preceding 24 hours, Water remaining on hand fit for use at Noon, | 0 | , | " |
| Position at 8 P. M. Longitude by Current during the time, knots tenths per hour, setting to the Variation of the Compass by Amplitude © observed at Sunrise, ship's head Variation of the Compass by Azimuth © observed at " Variation of the Compass by Azimuth © observed at " Variation of the Compass by Azimuth © observed at " Water expended during the preceding 24 hours, Water during the preceding 24 hours, Water remaining on hand fit for use at Noon, | 0 | , | " |
| Current during the time, knots tenths per hour, setting to the Variation of the Compass by Amplitude \odot observed at Sunrise, ship's head Variation of the Compass by Amplitude \odot observed at Sunset, Variation of the Compass by Azimuth \odot observed at Variation of the Compass by Azimuth \odot observed at Water expended during the preceding 24 hours, Water during the preceding 24 hours, Water remaining on hand fit for use at Noon, | 0 | , | " |
| Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head Variation of the Compass by Amplitude ⊙ observed at Sunset, " Variation of the Compass by Azimuth ⊙ observed at " Variation of the Compass by Azimuth ⊙ observed at " Water expended during the preceding 24 hours, Water during the preceding 24 hours, Water remaining on hand fit for use at Noon, | | | |
| Variation of the Compass by Amplitude ⊙ observed at Sunset, " Variation of the Compass by Azimuth ⊙ observed at " Variation of the Compass by Azimuth ⊙ observed at " Water expended during the preceding 24 hours, Water during the preceding 24 hours, Water remaining on hand fit for use at Noon, | | , | " |
| Variation of the Compass by Azimuth ⊙ observed at Water expended during the preceding 24 hours, Water during the preceding 24 hours, Water remaining on hand fit for use at Noon, | 0 | , | " |
| Variation of the Compass by Azimuth ⊙ observed at Water expended during the preceding 24 hours, Water during the preceding 24 hours, Water remaining on hand fit for use at Noon, | 0 | , | " |
| Water during the preceding 24 hours, Water remaining on hand fit for use at Noon, | 0 | , | " |
| Water remaining on hand fit for use at Noon, | , | 350 | gallons. |
| | | , | " |
| | | 650 | |
| Coal consumed during the preceding 24 hours, | to | ns 76 | 60 " |
| Coal remaining on hand at Noon, | 18 | " 201 | 60" |

| | | 1 | | | | TIT | | T | 1 0 | |
|-------|----------------|-------------|-----|----------|-------|-----|--------|----------|-----|----|
| P. M. | D.M. Lym. | A. M. Ly M. | 4 | 29.846 | 1 59 | 54 | 4.c. | Cir. Cam | 6 | 50 |
| 2 | M. D. M | m. S. m. | 4 | 29.85-6 | | | " | " | 6 | 41 |
| 3 | " | " 1 | 4 | 29.85 6, | | | " | Cir Cune | 6 | " |
| 4 | Mech | " | 4 | 19.866 | | | " | " | 6 | 4 |
| 5 | 16. 10. M. | Marth | 3 | 29.87 6. | | - 4 | d.c.g. | - | 7 | " |
| 6 | Mart | " | 3 | 29.89 6 | 1 | - | 4 | 4 | 9 | " |
| 7 | ", | . " | 4 | 29.94 61 | | | , | " | 9 | " |
| 8 | n. Sym. | " | 4 | 29.93 5 | | | 4. | 4 | 9 | " |
| 9 | Marth | " | 4-5 | 30945 | | | be | " | 10 | " |
| 10 | 16 E. Ley, 76. | | 40 | 3000 5 | | | " | Mone | 10 | 11 |
| 11 | 16. by m. | " | 3 | 30.7 0 | | | " | " | 10 | 4 |
| Mid. | 16. Ly . 6. | , | 2 | 20.03 4 | P. 52 | 49 | " | " | 10 | " |
| | ,,,,, | - | 11 | | | | | 1000 | | |

under the command of Caumanter J. D. Sewell.

Marrel in the Bushus fly stageth south , U. S. Navy, , 1888 . RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Commence ing & lutil 4 all When Come and W by Mr. Ellow in Law se shortons chain on tapo ch . Leanun Fram 4 lentil 8 acts Leent C. J. 76. Overcast With with clouds & rain Junes Back. Cleaning latter part West Some Cir au clando, Aqually finis to last Louis Gentle to Mostrate Terege from West Librily party returned. Int out Dailing Laureh. Received Est issued to Crew 90 las of freel Great Junata made time It dress signal 6+5 at 725 to nans in Lawres at end af Watch Fram & all butil Meridian Partly elw, Engy over land. Dliff to gentle Energe from West 38 M. M. M. Lawing in squalls. At 850 lancer Rail to a Funtline, rat 1/20. Jurled Rail. At 8 th french Man of War Parseval left the Garbar. Pint is Decoul Devisions exercises at great geens, vonter Machine gens. At 10 an laler away all Goals annel Et equipped dichaut tervice exercises lietics by Diqual from the ship. A. Robert Working for autractor on Soiler repairs Linux: Dixtote was arrested having skin of liquor in his passession & was placed unter rentry charge until Us I Can sul land be Communicated with to rose in hause Saisted in Whaletook for repairs. Engaged act Work on Main tapsail Started fires for Sutilling in Jaieirs I at 300 Coleans Enauve charle litty From flutil 8. PM. Leux 26. d. 76. order of the Commanding officer blaces the Japaneau Lienze sixkati in lell bless Lawse First East of Watch. Light to gentle Greege from Harthy last East, Began distilling at 8 20 crost rechity Examined and found to be correct. Tol alloway

| | | | Reading | | WIND. | | | | BAROME | TER. | TEMP | ERAT | URE. | State of | Forms of | lear ths. | e Sea. |
|-------|--------|---------|----------------|-------------------------------------|-----------------------------------|--------|-------|---------|-------------------|--------------|-------------------|-------------------|----------------------|-----------------------------|---------------------|----------------------------------|-----------------|
| Hour. | Knots. | Tenths. | of Patent Log. | Ourses STEERED by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. att'd. | Air, Dry Bulb. | Air, Wet Bulb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Clear Sky, in 10ths. | State of the Se |
| A. M. | | | | Month | Marth | 2-4 | + | | 30.03 | 56 | 52 | 48 | | L.c. f. g. | Caa | 9 | 20 |
| 2 | | | | 16. № 6. | i | 2 | | | 30 03 | 57 | 52 | 49 | | " | " | 8 | " |
| 3 | | | | 16 by 6 | " | 1 | | | 30.04 | 5-7 | 52 | 49 | | " | Car Cum | 6 | 4 |
| 4 | | | | 76. E. Sy 76 | ' // | 1 | | | 3003 | 54 | 52 | 49 | | 1" | , | 6 | " |
| 5 | | | | 6. Eu 16. | " | 2 | | | 30,02 | 36 | 02. | 49 | | J. c. 3. | , | 4 | " |
| 6 | | | | Each | " | 2 | | | 30.03 | 57 | 07 | 48 | | " | * | 3 | |
| 7 | | | | " 1 | " | 1 | | | 3005 | - | 52 | 1 1 | | " | | 3 | " |
| 8 | | | | No. €. Ly €. | // | 1 | | | 30,05 | 56 | 53 | 49 | | a.e. | Cunzund | 0 | |
| 9 | | | | E. S. E. | D. E. | 1 | | | 3008 | 57 | 54 | 50 | | 11 | " | 0 | " |
| 10 | | | | A. 6. Ly. 6 | " | 1 | | | 30.07 | 57 | 04 | 50 | | " | " | 0 | " |
| 11 | | | | 6. 26. | " | / | | | 30,06 | 90 | 55 | 5% | | " | " | 0 | " |
| Noon. | | | | 6. by s | " | / | | | 20.06 | 57 | 55 | 5% | | " | " | 0 | " |

| Course and distance | e made good since preceding noon by observation | ns, | | knots. | | tenths. | |
|---------------------|---|-------------------|----|--------|-------|------------|--|
| | (Latitude by D. R. | | | 0 | , | " | |
| | Longitude by D. R. | | | 0 | , . | " | |
| Position at Noon: | Latitude by observations of ⊙ | | | • | , | " | |
| | Longitude by chronometer from Forenoon C | Observations of ⊙ | | 0 | , | " | |
| | (Latitude by | | | 0 | , | " | |
| Position at 8 a. m. | Longitude by | | | 0 | , | " | |
| | (Latitude by | | | 0 | , | " | |
| Position at 8 P. M. | Latitude by Longitude by | | | • | , | " | |
| Current during the | time, knots tenths per hour, s | etting to the | | | | | |
| Variation of the Co | ompass by Amplitude o observed at Sunrise, sh | ip's head | | 0 | , | " | |
| Variation of the Co | ompass by Amplitude o observed at Sunset, | " | | 0 | , | " | |
| Variation of the Co | ompass by Azimuth ⊙ observed at | " | | 0 | , | " | |
| Variation of the Co | ompass by Azimuth O observed at | " | | | | " | |
| Water expended du | ring the preceding 24 hours, | | | | 35 | 7 gallons. | |
| Water Wish. | illed during the preceding 24 hours, | | | | | d " | |
| Water remaining or | n hand fit for use at Noon, | | | 19 | 00 | 7 " | |
| Coal consumed dur | ing the preceding 24 hours, | | , | / to | ns /9 | Per lbs. | |
| Coal remaining on | hand at Noon, | | 34 | , , | . 1 | 60 " | |
| | | | / | | | | |

| P. M. | 246 | | | | | | | | | | | |
|-------|-----|---------------|----------|----|--------|-----|----|----|---------|--------------|----|----|
| 1 | | D. D. E. | D. D. M. | 1 | 30.05 | 57 | 56 | 53 | acs. | Cam Strat | 0 | 0 |
| 2 | | or by D. | " | 1 | 20.05 | 56 | 55 | 92 | " | 11 | 0 | " |
| 3 | | D. Sy. 6. | " | / | 30,05 | -56 | 54 | 57 | , , | " | 0 | - |
| 4 | | D. E. Ey. E. | ⋑. €. | 2 | 30,05 | | | | L.a. S. | " | 3 | " |
| 5 | | Co. Ley. 96. | E. n. E. | 2 | 30.00 | | | | " | " | 6 | 4 |
| 6 | | clair | Calu | 0 | 30.06 | JF | 57 | 03 | ", | Circum | 8 | " |
| 7 | | €. 96. €. | " | 0 | 20.06 | 58 | 56 | 53 | " | Cum | 8 | " |
| 8 | | " | " | 0 | \$0.08 | 38 | 56 | 53 | 4.9. | " | 8 | " |
| 9 | | M. E. Ly E. | n.n. E. | / | 30.08 | 08 | 54 | 02 | 4.9. | Mark | 10 | " |
| 10* | | 76. M. Ly 16. | balu | 0 | \$0.10 | 280 | 34 | 51 | " | " | 10 | " |
| 11 | | Month | " | 0 | 20.10 | 22 | 53 | 51 | * | * | | |
| Mid. | | 16. M. Sy M. | " | 0 | 20,10 | 57 | 52 | 50 | " | 1 | 10 | 11 |
| | | | | 11 | | | | | | | | |

under the command of Commander J. D. Jewell Thursday Capril 12 75 , U. S. Navy, , 1888 . RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Commencing Es Cutil 24 all Generally Clear, Logg Est Case, Squally Jines Low. Light ains to moderate Greeze from Month. Dustilling. Clear hourse Eusign to W. M. Frame of hutil & all bland on Leagy, Light hrunge deer aing to leght ains from Month. It for leaves sail to a Sunthine, Distilling, Clear raines Hram & all Until Meridian. Jusigle la S. M. Ourcash and cloudy. Light ains finance o. E. At 830 made Jut Diqual 6/43 Junala auswered 904. Dent lap gallent your out beet light sails at 9th Junata mate Righal 48 56. Furlet Dair, then exercise at maxing sail and reefing tapians, Juniaga making legerals 5500-5961-5520-6/89-5520 26 6226. Celeaned I knawstast, Sur w. " C. E. Made. Pur, of Mc Mest, Mochet Was Grought on Found by Jackes. Con Sines J. Norau, mit tur, in souble trains for 10 days for being sormye an sound this, Places Dubois duder sentry, charge to rawant act ion of boundaries for unsoluce, Received 122 lles launed surrages for lievo, Received two (2) galley plates, lowered dailing launch Chen Teawse CAR Seemin Meniheau lutil 4. P.M. X went 16. 2. 16. Generally Cloudy land & Levy. Light ains End Liveze from D. D. M. to D. E. Deleveres af aparense thousand held on Goorf as prisoner for Dunggling legan to the Police authorities on Shore " Seut Witheresse to launt. Received on Found for Talas 11 party of Cluthing 2 Layer of etationary Es 2 Layer of Marigion shares Received in Pay Dept 100 for Dat week transers 100 sheeting from If 15 yours of lamels 195 yours of clathe Lookains of Worlen love to Blankels " Jas White Leats, all from More Swand Many York. Transferred John Leavy Q.S. to il s. S. Junita. The Bis march El barala Went and. for target practice. Clear hause. Vistilling. MB/ toggatt Fracust leutil 8. O.M. Musigle U. S. M. EME. Then Calm, British man of War Leauser Came in Es anchores, Recursed 100 Grass tules for Louis A. F. Dechuty Frank Pon lutil Mednight Quel 26. S. S. Chian Coal El Calen. Light ain from AH & Duspilling, Chemiaure. Examined and found to be correct. Les Galloway &

| | | | Reading | | WIND, | | | | BAROMI | ETER. | TEM | PERAT | TURE. | State of | Forms of | Tear ths. | e Sea. |
|-------|--------|---------|----------------------|----------------------|-----------------------------------|--------|-------|---------|-------------------|--------------|-------------------|-------------------|----------------------|-----------------------------|---------------------|--------------------------|--------------|
| Hour. | Knots. | Tenths. | of Patent Log. | by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. att'd. | Air, Dry Bulb. | Air, Wet Bulb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of C Sky, in 10 | State of the |
| A. M. | | | | No. 76. M. | Calm | 0 | | | 3011 | 61 | 52 | 50 | | J. g. | None | 10. | 20 |
| 2 | | | | Meel | " | 0 | | | 30.11 | 1 | | | | " | " | 10 | 21 |
| 3 | | | | " | * | 0 | | | 3011 | 54 | 50 | 48 | | 11 | " | 10 | " |
| 4 | | | | " | " | 0 | | | 30.11 | 52 | 00 | 48 | | 1 | 4 | 10 | |
| 5 | | | | 76. m. by m. | • | 0 | | | 30.12 | 51 | 20 | 48 | | J. c. 3. | and str | 6 | |
| 6 | | | | No. Ey &. | , | 0 | | | 30.14 | 53 | 57 | 49 | | " | 11 | 3 | ,, |
| 7 | | | | Each | Gack | / | | | 30.17 | 53 | 52 | 50 | | 4 | Li anu | 3 | " |
| 8 | | | | 6 by 16. | 2" | / | | | 30.17 | 54 | 33 | 51 | | " | 11 | 3 | 4 |
| 9 | | 1 | | 6. sy 0 | €. S. E. | / | | | 30.15 | 55 | 55 | 52 | | " | " | 2 | |
| 10 | | | | " | " | / | | | 30.15 | 03 | 53 | 53 | | " | " | ny | |
| 11 | | | | E. S. E. | " | / | | | 30,15 | - 60 | 57 | 50 | | " | Cist | 17 | |
| Noon. | | | | D. D. M. | 10. 10. € | 2 | | | 30.15 | 64 | 59 | 55 | | " | 11 | 8 | |
| | | | | | | | | | | | | | | | | | |

| Course and distance | made good since preceding noon by observations, | knots. | | tenths. | |
|---------------------|--|--------|-------|----------|--|
| | (Latitude by D. R. | • | , | " | |
| | Longitude by D. R. | • | , | " | |
| Position at Noon: | Latitude by observations of ⊙ | 0 | , | " | |
| | Longitude by chronometer from Forenoon Observations of ⊙ | • | , | " | |
| | (Latitude by | 0 | , | " | |
| Position at 8 a.m. | Longitude by | 0 | , | " | |
| | (Latitude by | 0 | , | " | |
| Position at 8 P. M. | Longitude by | 0 | , | " | |
| Current during the | time, knots tenths per hour, setting to the | | | | |
| Variation of the Co | ompass by Amplitude ⊙ observed at Sunrise, ship's head | • | , | " | |
| Variation of the Co | mpass by Amplitude ⊙ observed at Sunset, " | 0 | , | " | |
| Variation of the Co | mpass by Azimuth ⊙ observed at " | 0 | , | " | |
| Variation of the Co | mpass by Azimuth ⊙ observed at " | 0 | , | " | |
| Water expended dur | ring the preceding 24 hours, | (| 350 | gallons. | |
| | illex during the preceding 24 hours, | 15 | 5 | 0 " | |
| | hand fit for use at Noon, | 23 | 50 |) " | |
| | ng the preceding 24 hours, | 1 to | ns 50 | o lbs. | |
| Coal remaining on h | hand at Noon, | 25 | 1 | 900 " | |
| | 24 | ~~ | / | | |

| DW | T | | 11 | | 1 | la: 4 / 1 |
|-------|-------------|-----------|----|-----------------|---------|------------|
| P. M. | D. m. Ly D. | D. D m. | 1 | 3 /2 60 . 56 | u.c. 3. | Circl & |
| 1 | 14 | | 2 | 30.14 62 60 56 | | Epeap o |
| 2 | D. Ley W. | | | 30/3 62 6/ 56 | 11 | 11 8 |
| 3 | D. & Sy E. | | 2 | 30.10 63 62 58 | 4 | 11 8 |
| 4 | D. D. M. | "/ | 2 | 30,10 64 63 54 | 11 | 11 8 |
| 5 | M.D. M | " | 2 | 30.4 6464 59 | " | 11 9 |
| 6 | m Ly M. | 1" | 2 | 30,12 63 63 024 | " | 11 8 |
| 7 | , , | Dalu | 0 | 30/2 62 62 54 | 2.3. | 11 8 |
| 8 | 76.8. | 16.6. | 2 | 30145961 54 | 4.9. | 11 6 |
| 9 | 6.96.6. | €. 16. €. | 2 | 3014 57 08 04 | " | None 10 |
| 10 | 76.96. M | Calin | 0 | 30,15 08 38 55 | ," | 11 10 |
| 11 | m.96 m | " | 0 | 30,15 5758 55 | K.C.3 | Circhet 91 |
| Mid. | " | II. | 0 | 30,17 57 37 55 | " | " 8 |
| | | | 1 | 1 1 1 1 1 | | |

under the command of Commander 2. 2. Lewell Druday Jakrie 18th , U. S. Navy, , 18/8 . RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Commencing El lintil if all blur Laws. Stapped Detilling blear land Ed Lingy, Calm, Char Laws. Mappin Detilling Standstone. Ent's Received for Crim 121/4 fresh seef Ed 12/14 Fresh Seg at ables 45 95 lles of freel treet. Clear Laure From & aux leuxil Merifiane Lieux lle D. Th. Generally Clear Lagg & pleasant, Light ains and breeze from & D. E. D. D. E, vat 945. impleeter Crew at quanters did exercises Divisions vas follows Jet & I'm Dungle chicks 3rd & Torder, Stations. Mavigators, Rifles, Received in Countruction Dept 3 lbs 1" Tooks 5 lbs 12 Tooks 5 lbs 3/4 Tooks 10 Dales Linseed oil 50 lbs Green stellas. Turperted by Soand of which Lieux Court GA. Bictness, Was isening wember. The Comming officer pair au official Visit to N. B. M. S. Leans ex, Punying hew waist fram mock dethes Etrepairing an ain topuail. At 1150 Leaves Kures un boiles I'm 3. le mass in house, shot clean on top. mortageate Meritian lectil of Por. Chisique 16. V. 76. Logy Light ains to wreige from D. S. W. Painted Waist ham moer claster Slove Daie martens gang at Work on I'm Culters Caver Ged Main toppand. Idented and Dura Diores, le wars in Leuve at en of Watch. Paparning Whale Book M. C. Farm Detores. Led main toppail. Derved and Durall From of Putil 8. C. 18. (Suriou the B. Jone D. M. & M. S. L. M. Dunset Neux Sawa royal yard and subsent royals and flying fit. Elsow in seawer stanbourd chain on tap

Thomas Por Until Mesenglet Chair. Nazy. Light and constants and lessent and the Secretary and the se mallagent latter part. Legler ains from & M. E. Junas Lour, Calm afterwards & rang in hause at air of world Curiga Eles B. Examined and found to be correct. Ex. Galloway &

| | | | | | WIND | | | | DANOMETER TEMPERATURE | | | - | - |
|-------|--------|---------|---------------------------------|--------------------------------------|---------------------------------------|--------|-------|---------|--------------------------------------|---|------------------------------------|----------------------------------|-----------------|
| Hour. | Knots. | Tenths. | Reading of Patent Log. | COURSES STEERED by Standard Compass. | WIND. Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. Ther. Temperature. | State of the Weather, by symbols. | Forms of Clouds, by symbols. | Prop. of Clear Sky, in 10tbs. | State of the Se |
| A. M. | | | | No. M. Ly M. | Calm | 0 | | | 30.11 59 56 54 | Jeg. | lin au | 7 | 6 |
| 2 | | | | m. 76: m. | " | 0 | | | 30.18 60 56 63 | , | * | 8 | * |
| 3 | | | | M. H. M. | , | 0 | | | 30,19 60 55 63 | , | " | 7 | 7 |
| 4 | | | | " | " | 0 | | | 30.19 59 55 63 | " | | 7 | 4 |
| 5 | | | | n. 76. m | 4 | 0 | | | 30/9 60 55 63 | " | * | 4 | 4 |
| 6 | | | | Marth | " | 0 | | | 30,20 09 56 63 | , | 7 | 4 | " |
| 7 | | | | 16. €. | " | 0 | | | 30,21595954 | | " | 4 | " |
| 8 | | | | Eask | 1€.76 €. | 1 | | | 30,22 60 58 56 | | " | 3 | * |
| 9 | | | | 16. Ly. D. | € Ly 16. | 1 | | | 30,2560 54 55 | , | Cer Cent | 5 | |
| 10 | | | | Carp | " | 2 | | | 302461 60 56 | , | Ci Cun | 5 | |
| 11 | | | | VE Ley 36. | 4 | 2 | | 100 | 3023626257 | | 4 | 4 | 1 " |
| Noon. | | | | 25€ | 26 | 1 | | | 3024646254 | , | ar lan | 4 | |
| | | | | | - | | | | | | | | 1. |

| Course and distance | made good since preceding noon by observations, | knots. | tenths. |
|---------------------|--|--------|------------|
| | (Latitude by D. R. | 0 , | " |
| | Longitude by D. R. | . , | " |
| Position at Noon: | Latitude by observations of ⊙ | ٠, | " |
| | Longitude by chronometer from Forenoon Observations of ⊙ | . , | " |
| | (Latitude by | 0 / | " |
| Position at 8 a. m. | Longitude by | 0 , | " |
| | (Latitude by | 0 / | " |
| Position at 8 P. M. | Longitude by | . , | " |
| Current during the | time, knots tenths per hour, setting to the | | |
| Variation of the Co | mpass by Amplitude ⊙ observed at Sunrise, ship's head | 0 , | " |
| Variation of the Co | mpass by Amplitude ⊙ observed at Sunset, " | 0 / | " |
| Variation of the Co | mpass by Azimuth ⊙ observed at " | 0 , | " |
| Variation of the Co | mpass by Azimuth ⊙ observed at " | | " |
| Water expended dur | ring the preceding 24 hours, | 35 | o gallons. |
| Water | during the preceding 24 hours, | | " |
| Water remaining on | hand fit for use at Noon, | 230 | U " |
| Coal consumed duri | ng the preceding 24 hours, | 25 " | 400 lbs. |
| Coal remaining on h | hand at Noon, | 25 " | 1500 " |
| | | | |

| P.M. | - 0 | | | | 1 | | | |
|------|-------------|----------|-----|----------------|-------|-----------------|---------------|----|
| 1 | E. Ly. D. | ₽. €. | 1 | 30,20 64 68 60 | 3.0.3 | | | |
| 2 | Euch | | 1 | 30.18 65 64 60 | " | " | 7 | " |
| 3 | D. by. E. | D.M. | 2 | 20.17 66 66 60 | . " | " | 8 | * |
| 4 | M. D. M | M. D. M. | 3 | 20.16 67 66 59 | , | | 9 | |
| 5 | Week | Mesk | 2 | 30.19 68 66 61 | | | - | |
| 6 | " | " | 2 | 2020 66 65 61 | | - | | |
| 7 | m. 76. m. | , | 2 | 20.19 65 64 60 | | Ci Cun maich | 5 | |
| 8 | " | " | 2 | 30.19 65 64 60 | | | | |
| 9 | 6. by 16. | 16. €. | 1 | 20,23 65 64 61 | | Cer Com | Street Street | |
| 10 | 76 6. Ly 6. | | 1 | 30.24 63 63 60 | | 7 | | |
| 11 | 676 8 | | 2 | 30.2463 6258 | | " | 10000 | |
| Mid. | No. €. | 1. | 2 | 30.2462 6/ 58 | | " | 8 | ** |
| | | 1 | 111 | | | 10000 | | |

under the command of Souluaurer J. J. Lewell , U. S. Nav. Dapurlay april 14 th , 1888. , U. S. Navy, RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Commencing & Until of all bles Elbow in Laws & & Chain ou lop Tip to omis ENE Recent for wine 87 lbs of freih Sirias, Count turn in hause & So chain outof Fram & acts to Meridian Light ains to Gregs from & by M. until land have when high ains Came out , To E. Chere of hawse. Must week guardens & sings seled Clean hammoers and marked them, Tamber Gordon gangway railing Repairing Whale Boat, By onter of bounds offices & laces, & Et entain 1, CA, lender Sentry Charge. P.a. Enquien M. Wenig Went are liave (one wick). Comme in Liawre of end of watch Merideau, Mutil, 4. PM. Curique Well. Flair encreasing to Clear Weather. Warm. Negy and land high Jais from D. E. Junch half to light hunge from D. M. last half. Deut liberty party asharo. Comme in house sat & Chain on top. The Captern of N. m. D. Leanter paid an official Visit to this whip Jooning From 4 hutil & Poss Davigu 16 1.76. Light Ereige from Must. Elbor in Laure at Eins of watche Attrumptone. Recurd U. S. Mail. on Fourt. Elbow in hawse shanbort chain on top from 16. Misigu lb. N. 96 Examined and found to be correct. Son Gelloway Navigelor.

| | | | Reading | | WIND. | | | | BAROME | ETER. | TEMI | PERAT | TURE. | State of | Forms of | lear ths. | e Sea. |
|-------|--------|---------|----------------------|-------------------------------------|-----------------------------------|--------|-------|---------|-------------------|--------------|-------------------|-------------------|----------------------|-----------------------------|---------------------|--------------------------------|--------------|
| Hour. | Knots. | Tenths. | of Patent Log. | OURSES STEERED by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. att'd. | Air, Dry Bulb. | Air, Wet Bulb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Cles Sky, in 10ths | State of the |
| A. M. | | | | No. E. | 76. E. | 3 | | | 30,20 | 61 | 60 | 56 | | S.c. q. | Cir Cun | 6 | D |
| 2 | | | | " | " | 3 | | | 30.19 | | | | | " | " | 6 | " |
| 3 | | | | No. E. Sy 16. | " | 3 | | | 30.16 | | | | | | " | 7 | 4 |
| 4 | | | | 16.€ | " | 3 | | | 20.15 | | | 100 | | , | " | 7 | 4 |
| 5 | | | | no. E. Ly E. | " | 3.4 | | | 3014 | 62 | 60 | 56 | | 4 | De Ceny | 4 | ħ |
| 6 | | | | .,, / | " | 3.4 | , | | 30,14 | 61 | 60 | 56 | | , | | 3 | 1, |
| 7 | | | | 16.92.E. | 1€. No €. | 3 | | | 30,14 | 62 | 60 | 56 | | V.C. | " | 2 | " |
| 8 | | | | 1 | 10.4 | 3 | | | 30.14 | 63 | 60 | 59 | | " | 4 | 4 | 4 |
| 9 | | | | , | 111 | 3 | | | 30/3 | | | | | 4 | , | 2 | " |
| 10 | | | | E & Ho. | 6 by B | 3 | | | 30.11 | | | | | . ,, | " | 1 | " |
| 11 | | | - | E 12 5 | 1 1 1 | 3 | | | 3004 | | | | | " | " | 1 | 9 |
| Noon. | | | | Cach. | " | 3 | | | 30,03 | - | | | | " | 4 | 1 | × |
| Noon. | | | | Caca | | | | | 20,00 | 05 | 0) | 00 | | | | / | |

| Course and distance | e made good since preceding noon by observations, | knots. | t | enths. | |
|---------------------|--|--------|---------|----------|--|
| | (Latitude by D. R. | 0 | , | " | |
| | Longitude by D. R. | 0 | , | - ili | |
| Position at Noon: | Latitude by observations of ⊙ | • | , | " | |
| | Longitude by chronometer from Forenoon Observations of ⊙ | | , | " | |
| | (Latitude by | 0 | , | " | |
| Position at 8 a. m. | Longitude by | • | , | " | |
| | (Latitude by | • | , | " | |
| Position at 8 P. M. | . Longitude by | 0 | , | " | |
| Current during the | time, knots tenths per hour, setting to the | | | | |
| Variation of the Co | ompass by Amplitude ⊙ observed at Sunrise, ship's head | 0 | , | " | |
| Variation of the Co | ompass by Amplitude ⊙ observed at Sunset, " | • | , | " | |
| Variation of the Co | ompass by Azimuth ⊙ observed at " | • | , | " | |
| Variation of the Co | ompass by Azimuth ⊙ observed at " | • | , | " | |
| Water expended du | ring the preceding 24 hours, | | 350 | gallons. | |
| Water | during the preceding 24 hours, | | | " | |
| Water remaining or | n hand fit for use at Noon, | | 1950 | | |
| Coal consumed duri | ing the preceding 24 hours, | t | ons H v | o lbs. | |
| Coal remaining on | hand at Noon, | 25 | " 110 | 10 " | |
| | | | | | |

| parameter and improve a separate | | | | | | | | _ | - | - |
|----------------------------------|--------------------------------------|-----------|----|----------|-----------------|------|---------|-----------|---|--------|
| P. M. | | | | | | | 1 | | | 0 |
| 1 | D.D. 6 | D. M. | / | 30.04 6 | 46 | 3 59 | Je 3d. | ar him | 2 | 8, |
| 2 | D. E. by D. | Drutt | / | 30,016 | 46 | 2 60 | Se 3 d. | | 0 | 4 |
| 3 | | A. E. | 1 | 300263 | | | 0.6.3.1 | James and | 0 | * |
| 4 | E by D. | B. E. E. | 2 | 29,99 6, | | | " | " | 0 | " |
| 5 | " | | 2 | 29.966, | 13 | 954 | 0.0.2. | Mind | 0 | |
| 6 | En E. | E. 76. E. | 2 | 19.93 3 | | | 4 | | 0 | 4 |
| 7 | -11 | " | 2 | 2990 5 | | | 4 | Can heid | 0 | " |
| 8 | | ,, | 3 | 29,90 3 | | | " | 4 | 0 | " |
| 9 | E. L. n. | , | 3 | 19.40 5 | and the same of | | , | " | 0 | 4 |
| 10 | E. Ly n. n. E. Ly E n. E. Ly E | " | 3 | 29.90 60 | 1 3 | 9 56 | 1 | " | | |
| 11 | M. E. | , | 3 | 29.85-60 | 0 5 | 9 57 | , | | 0 | " |
| Mid. | " | " | 3 | 29846 | 0 6 | 0 58 | 4 | ,, | 0 | 100000 |
| Justi. | | | 11 | 1 | 1 | | | | | |

under the command of Dominantes J. D. Lavell Dunday Capuil 15th , U. S. Navy, , 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Generally fair Es pleasant. Gentle Errege from 16 8. Selvon in Laure vat send af watch es. & Seemin From of lentil & acid drey 26 s. H. Benerally Claudy: Light squalls finish fant Clouds fir am Recensed End incused to Crew 13/14 Mis Each of Junal Sect & Negatables to 97 lles of Junal Sucular Servan Servan Ships Brannarck Sophie & Barrla left the Garbor at 755, Clear Lawse A Countone. sat and of Watch. Linguito Mills cettel Mendian

Chandy, Gentle inverze fram & by at 915 Counting offer

inspect of the Sweet one at quarters, Color hauses.

From Mendian, to, if Pot.

Com guttest

Com guttest

rain, remainder of el afeli lainey. Light accasional light drengling

rain, remainder of el afeli lainey. Light airs fram Dant of The American

bards Maly obrig laine in as anchored, Color hawse cs. + Deentun Heracu of leutil 8 PM8 Que Lainey. Light lines from 6. D.E. us E. H. E. Clear Lause Il soomers Fi rom 8 Por lutil Medinglet Rainey. Gentle Euroza firom & M. E Char house Lientle S. B. Examined and found to be correct. tos Lacertony

| | | | Reading | | WIND. | | | | BAROMET | ER. TE | MPERA | TURE. | State of | Forms of | lear ths. | e Sea. |
|-------|--------|---------|----------------------|-------------------------------------|-----------------------------------|--------|-------|---------|---------------------|-----------|-------------------|---------------------|-----------------------------|------------------------|--------------|-------------|
| Hour. | Knots. | Tenths. | of Patent Log. | OURSES STEERED by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height T in inches. | her. dial | Air, Wet Balb. | Waterat Surface, | the Weather, by symbols. | Clouds, by symbols. | Prop. of C | State of th |
| A. M. | | | | No. E. | n. E. | 2 | | | 2984 6 | 6/6 | 59 | | aca | Quinty | 0 | 9. |
| 2 | | | | 16. E. Ey & | , | 3 | | | 29.82 6 | 6160 | 38 | | " | | 0 | - |
| 3 | | | | €. n. E. | E. N. E. | 2 | | | 29.82 6 | 6160 | 58 | 1.5 | " | | 0 | - |
| 4 | | | | 6. Ly. 76. | " | 1 | | | 29.846 | 6261 | 60 | | " | | 8 | - |
| 5 | | | | D. m. | Much | 2 | | | 29.85 6 | 6160 | 60 | | * | | 0 | - |
| 6 | | | | , | ") | 2 | | | 29.886 | 6/6 | 009 | | 0,0,9,8 | 4 | 0 | - |
| 7 | | | | M. Ly. D. | 41 | 2 | | | 29906 | 61 60 | 0 58 | | " | | 0 | - |
| 8 | | | | m. s. m | " | 2 | | | 29.92 | 6/60 | 0 07 | | 0, C, Zu, | , | 0 | - |
| 9 | | | | Mr. Ley D. | " | 2 | | | 29.41 | 626 | 057 | | " | | 0 | - |
| 10 | | | | 76.76.€. | €. 2. 8. | 1 | | | 29.99 8 | 6260 | 59 | | 0.0.3.1 | " | 0 | |
| 11 | | | | " | Calen | 0 | 1 | | 30,00 € | | | | 003. | | 0 | |
| Noon. | | | | E. by 16. | 16. D. E. | 1 | | | 29996 | 63 61 | 1 59 | | 8.0.3 | | 2 | - |

| Course and distance | re made good since preceding noon by observations, | | knots. | | tenths. |
|---------------------|--|--------------|----------|----|----------|
| | (Latitude by D. R. | | • | , | " |
| | Longitude by D. R. | | • | , | " |
| Position at Noon: | Latitude by observations of ⊙ | | | , | " |
| | Longitude by chronometer from Forenoon Observ | rations of ③ | • | , | " |
| | (Latitude by | | | , | " |
| Position at 8 a. m. | Longitude by | | | , | " |
| | (Latitude by | | • | , | " |
| Position at 8 P. M | Longitude by | | | , | " |
| Current during th | e time, knots tenths per hour, setting | to the | | | |
| Variation of the C | Compass by Amplitude ⊙ observed at Sunrise, ship's h | ead | | , | " |
| Variation of the C | Compass by Amplitude ⊙ observed at Sunset, " | | • | , | " |
| Variation of the C | Compass by Azimuth ⊙ observed at " | | • | , | " |
| Variation of the C | Compass by Azimuth ⊙ observed at " | | ٠ | , | " |
| Water expended d | luring the preceding 24 hours, | | 7 | 50 | gallons. |
| Water | during the preceding 24 hours, | | | | " |
| Water remaining | on hand fit for use at Noon, | | 160 | 1 | " |
| Coal consumed du | ring the preceding 24 hours, | | 160 tons | 4 | o lbs. |
| Coal remaining on | hand at Noon. | | 95 " | 40 | 0 " |

| P. M. | | | | | | | | |
|-------|-------------|----------|---|----------------|--------|----------|---|----|
| 1 | E. n. E. | C. D. €. | 1 | 1996 64 61 59 | 0.6.3. | ninh | 0 | D |
| 2 | Doy E. | Calm | 0 | 29.96 64 62 59 | 80.3 | " | 2 | " |
| 3 | D. M. | Dant | 1 | 29.95-65-64-61 | 8.0.3. | , | 4 | * |
| 4 | D.M. Ly. M. | Calin | 0 | 1996 65 64 61 | | " | 1 | ** |
| 5 | D. M. | " | 0 | 19.98 65 64 61 | 4 | Cum stat | 1 | |
| 6 | Dauth | | 0 | 29.98 65 63 60 | 0.0.3. | | 0 | " |
| 7 | Cail | " | 0 | 19.98 65 63 60 | o.e.g. | | 0 | - |
| 8 | , | * | 0 | 29.98 65 63 60 | | | 0 | ~ |
| 9 | D. E. | | 0 | 79.97 64 62 60 | " | * | 0 | - |
| 10 | Carl | | 0 | 29.97 64 62 59 | , | - | 0 | " |
| 11 | South | | 0 | 19.97 64 62 59 | " | | 0 | |
| Mid. | n.76. m. | " | 0 | 39.97 64 61 58 | | " | 0 | - |

Dominander J. D. Jewell Monday rapide 16 th , U. S. Navy, under the command of , 1881. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. from No. E. to E. No. E. Clear Laure. Mittingsthe 1.7. From 4 hutil 8 all Longe from must. Elbor in hause starts chain on tap I from fines half higher From 8 all butil Menidian Dunguille V.To. Claudy finish Lawn, with accasi and light duyghing rain from West. Temainder of watch calen and legter air from D. D.E. At Junperted by Peans of which hem bed. Ballomay Was Sept 150 Ballons of Lampaie Super Sept 150 Ballons of Lampaies of Lampaies Some Sept 150 Ballons of Lampaies of Jurled sail, winding maintapearl. Thipped for Cruise vas landoman Chas Myeno Cross in Lawse who & chain on top til S. Pos. M. Sundawn Sent Jawa lafe gallent from of lutil 8. Pos. Yord, Es wasto, bubent top gallent sails Cler Lawse A Flehum Frame & PM Until Medinglif Overcast & Blias and balen lover in home Atho Chain on lop Met toggett Examined and found to be correct. Los Lactory and Navigator.

LOG of the United States Déaucer Cesses 3,8 Rate, Maares in the Learbar of Nobe Japan

| | | | Reading | | WIND, | | | | BAROME | TER. | TEMI | PERAT | URE. | State of | Forms of | f Clear 10ths. | e Sea. |
|-------|--------|---------|----------------|----------------------|-----------------------------------|--------|-------|---------|-------------------|--------------|-------------------|-------------------|----------------------|-----------------------------|---------------------|--------------------------|--------------|
| Hour. | Knots. | Tenths. | of Patent Log. | by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. att'd. | Air, Dry Bulb. | Air, Wet Bulb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of C Sky, in 10 | State of the |
| A. M. | | | | no. m. Lyn | Lalu | 0 | | | 29.97 | 63 | 60 | 57 | | 0,00 | Lun Vini | 40 | 50 |
| 2 | | | | , | * | 0 | | | 2994 | 61 | 60 | 08 | | 86.3 | , | 4 | " |
| 3 | | | | " | | 0 | | | 29.95 | -61 | 60 | 08 | | " | , | 6 | |
| 4 | | | | Much | " | 0 | | | 24.93 | -61 | 59 | 57 | | ' " | " | 8 | |
| 5 | | | | m. by. 76. | , | 0 | | | 2998 | | | | | " | atrat | 7 | 11 |
| 6 | | | | 76.76.m | | 0 | | | 2998 | 58 | 57 | 33 | | , | Cir Cun | 7 | " |
| 7 | | | | " | " | 0 | | | 2999 | 60 | 58 | 56 | | ", | " | 6 | " |
| 8 | | | | Mest | , | 0 | | | 2994 | | | | | , | " | 6 | - |
| 9 | | | | D. E. Ly. D. | D. 18 6 | / | | | 29.99 | | | | | " | ai ut | 4 | 1 |
| 10 | | | | " ay. w. | " | 1 | | | 29.99 | | | | | , | , | 8 | 1 |
| 11 | | | | D.D. E. | Auth | 2 | | | 2997 | | 1 . | 1000 | | , | " | 8 | |
| Noon. | | | | D. D. E. D. Sy. M. | D. m. | 2 | | | 29.95 | _ | 1 | - | | | , | 6 | |

| Course and distance made good since preceding noon by observations, | knots. tenths. |
|--|----------------|
| (Latitude by D. R. | 0 , 1/ |
| Longitude by D. R. | 0 , " |
| Position at Noon: Latitude by observations of ⊙ | 0 , " |
| Longitude by chronometer from Forenoon Observations of ⊙ | 0 , 11 |
| (Latitude by | . , , , , |
| Position at 8 a. m. Longitude by | 0 , " |
| (Latitude by | 0 , " |
| Position at 8 P. M. Longitude by | 0 , " |
| Current during the time, knots tenths per hour, setting to the | |
| Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head | 0 / // |
| Variation of the Compass by Amplitude ⊙ observed at Sunset, " | 0 , ., |
| Variation of the Compass by Azimuth ⊙ observed at " | 0 1 11 |
| Variation of the Compass by Azimuth ⊙ observed at " | , " |
| Water expended during the preceding 24 hours, | 350 gallons. |
| Water during the preceding 24 hours, | " |
| Water remaining on hand fit for use at Noon, | 1250 " |
| Coal consumed during the preceding 24 hours, | tons 400 lbs. |
| Coal remaining on hand at Noon, | 25 "900 " |
| | |

| P. M. | 1 | | | | 1 | | | |
|-------|-------------|-------------|---|----------------|----------|----------|----|----|
| 1 | D. Ly M. | A. M. | 2 | 29.9466 6459 | J.c. 7. | ai slink | 8, | 6 |
| 2 | D. Ly M. | " | 2 | 29.91 67 63 37 | J.c. 7. | " | 7 | 11 |
| 3 | D. M. by D. | * | 1 | 29.90 68 65 60 | | ai am | | |
| 4 | " | | 2 | 29.90 68 65 61 | " | " | 4, | * |
| 5 | D. M. by M. | D. M. Ly D. | 2 | 29.91 67 65 63 | | | 4 | - |
| 6 | or. Ly. 36. | " | / | 29.9265 6460 | | " | 1 | 4 |
| 7 | m sy s. | | 1 | 2493656360 | , | Think | 0 | 4 |
| 8 | man. | Ment | 1 | 29.92.66 64 62 | d.c.2. 6 | nuit | 0 | " |
| 9 | m. by . 96. | Ment | 1 | 29.93 65 65 63 | 0.0.3.6. | " | 1 | " |
| 10 | m.s.m. | 1 | 1 | 29.93 65 65 63 | 0,0.0 | * | 2 | |
| 11 | | ," | 1 | 29.9365 6462 | 8.03 | Cicum | 6 | " |
| Mid. | M. Sy D. | /Each | | 29.91 64 64 62 | - 10 | | 6 | - |
| | | | 1 | | | 1999 | | |

Danmanter D. D: Jewill Dunsay april 19th , U. S. Navy, under the command of , 18 88. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Mow in howse, fant chain an top From I butil & aces Lingles and Johnson. Nazy. Clouds an am. and strat. Colored Liances. Liberty Joarty retines. Received in Pay defer and innues to crew 122 lbs each of fresh beef and Jegatables, and 98 lbs of fresh break. Death of the gallest leach of fresh beef and Jegatables, and 98 lbs of fresh brend. Dent cefo topo gallent wants Et yand at for. Cher have at end of watch From & aces butil Meridians Musiges Ules. 38 Generally Clear Eagy & pleasant. Light air & Insize fram D.E. to D. M. At 945. unspected trew at quantons, raftendands exercised Company sartillery and unines at infanty. Brane out fore fear & aires lowents. Dailmaken gang lat Wank vou fare "es main laf sails. Crase in hawse bank chain an laf. Jesam. Meris ian Until, H. P. Suright Lesser Suright Lesser Suring What Road. Light airs to ince of Show wanter and sur Suring What Road. Restoured fore feers Dhare wantereau lugaged nie Engineers Dept. Corane in handle 18 1 toggatt Light ains and breeze from M. Sy. D. to Mest. M. Dunses sent Sown life gallent yants Musigull. S. R Fram & Mr. Hoggath Midwight Lenaign W. S.M. Surgeling Rain Het hour, generally chudy until last hour when clearing partly. blonds and ninch rain any Light airs from when hutil last hour when shifted to East Rainey appearances blook hawise It I fordstone Juigelle S. 18 Examined and found to be correct. Education and El Navigator.

| | | | Reading | | WIND. | | | | BAROMI | ETER. | TEM | PERAT | URE. | State of | Forms of | lear ths. | e Sea. |
|-------|--------|---------|----------------------|--------------------------------------|-----------------------------------|--------|-------|---------|-------------------|--------------|-------------------|-------------------|----------------------|-----------------------------|---------------------|------------------------------|--------------|
| Hour. | Knots. | Tenths. | of Patent Log. | COURSES STEERED by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. att'd. | Air, Dry Bulb. | Air, Wet Bulb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Cle Sky, in 10th | State of the |
| A. M. | | | | N. N. E. | Calu | 0 | | | 29.91 | 64 | 63 | 61 | | S.c. 3. | Ri Cun | 8 | 6 |
| 2 | | | | n. E. | " | 0 | | | 29.91 | 63 | 63 | 60 | | ,0 | " | 8 | " |
| 3 | | | | 76. M. Lym | . " | 0 | | | 29.90 | | | | | " | " | 8 | " |
| 4 | | | | on Ey. 76. | , | 0 | | | 29.90 | 62 | 61 | 59 | | " | " | 8 | " |
| 5 | | | | " | , | 0 | | | 29.91 | 63 | 61 | 59 | | | Bun st | 18 | ** |
| 6 | | | | much | , | 0 | | | 29.92 | 61 | 60 | 58 | | 4 | * | 8 | |
| 7 | | | | m. Ey. D. | M. Ly D. | 1 | | | 29.93 | 61 | 60 | 58 | | " | | 6 | - |
| 8 | | • | | Am. Eym. | m. s. m. | 1 | | | 29.94 | | | | | | " | 7 | |
| 9 | | | | W Ey. 76. | Mush | 2 | | | 29.93 | | | | | | Bun | 19 | |
| 10 | | | | West | " | 3 | | | 29.94 | | | | | " | " | 9 | |
| 11 | | | | m. Ey. 76 | | 3 | | | 29.93 | _ | - | | | " | 11 | 8 | 1 |
| Noon. | | | | ,, | " | 3 | | | 29.91 | 67 | 66 | 61 | | | " | 8 | |
| 00111 | | | | | | | | | | / | | | | | | | |

| Course and distance | made good since preceding noon by observations | , | knots. | | tenths. |
|----------------------|--|-----------------------|--------|-------|----------|
| | (Latitude by D. R. | | • | , | " |
| | Longitude by D. R. | | o | , | " |
| Position at Noon: | Latitude by observations of ⊙ | | | , | " |
| | | and the second second | 0 | , | " |
| | Longitude by chronometer from Forenoon Ob | servations of © | 0 | , | " |
| Position at 8 a. m. | Latitude by | | | | |
| | (Longitude by | | • | , | " |
| Position at 8 P. M. | (Latitude by | | • | , | " |
| Position at 8 P. M. | Longitude by | | • | , | " |
| Current during the | time, knots tenths per hour, set | tting to the | | | |
| Variation of the Co | mpass by Amplitude o observed at Sunrise, ship | p's head | 0 | , | " |
| Variation of the Cor | mpass by Amplitude ⊙ observed at Sunset, | 4 | | , | " |
| | mpass by Azimuth ⊙ observed at | 46 | ** | , | " |
| | mpass by Azimuth ⊙ observed at | " | | , | " |
| | | | 1 | 30 | gallons. |
| | ring the preceding 24 hours, | | | | ganons. |
| Water | during the preceding 24 hours, | | | 0 1 | |
| Water remaining on | hand fit for use at Noon, | | | 9 a | |
| Coal consumed duri | ng the preceding 24 hours, | | to | ns /6 | 660 lbs. |
| Coal remaining on h | and at Noon, | | 24 | 1 8 | 80 " |

| P. M. | | | | | | | | 1 | | | |
|-------|------------|---------|----|-------|----|----|-------------------|--------|--------|---|---|
| 1 | M. D.M. | M.D.M. | 3 | 29.89 | 68 | 68 | 62 | 5.0.3. | am str | 9 | 0 |
| 2 | " | " | 3 | 29.81 | | | | , | " | 9 | - |
| 3 | D. D. M. | D. M. | 3 | 29.86 | | | | " | " | 8 | - |
| 4 | D. M. by D | " | 3 | 29.86 | | | | " | - | 8 | |
| 5 | Wich | Weak | 3 | 29.86 | | | | | Di ann | 6 | - |
| 6 | m.76 m. | " | 2 | 29.91 | 70 | 70 | 63 | | - | 6 | |
| 7 | n n. m. | Calu | 0 | 29.91 | | | | | aramit | 6 | |
| 8 | Month | " | 0 | 29.91 | | | | | , | 6 | - |
| 9 | 16.96. 6. | " | 0 | 29.96 | 1 | | | | ar aus | 8 | - |
| 10 | 76. 76. E. | Month. | 3 | 29.98 | 2 | | | " | " | | |
| 11 | " | Broth " | 2 | 29.98 | | 1 | | | ai aum | 6 | " |
| Mid. | 2. 2. 8. | " | | 29.00 | - | - | The second second | | " | 7 | 3 |
| | | | 11 | 1 1 | 1 | | | | | | |

under the command of Commander 2. 2. J. Eurell. , U. S. Navy, , 1888 . RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Commencing Es lutil 4 all, Clear. Nazy over land. Calm. Cher hause From 4 Justil 8 alx Mung ll. 26. 1.18. Char Lagy & pleasant Calin & light rains from m. by D. Rus Mr. D. M. Received for is ene in Pay defet 98 lbs of fruit Fread. Atarted, fines in Sollers. 2 The Commanding refficer folaced J. E. Derbais, in Souble inans for rafe Surfing he having threatened med struck the Bentry over prisoners. Clear Laurse. Curight U. S. 28. Frame & all butil Meridian. Generally lless with legich live clouds. Nazy tright wer pleasant Light to gentle Tereeze from Wint. Went to quarters for unater and inspection, rapper which Srilled & and 2 and Devisions vat great guns, Madigators, 3rd, and Firstole Called away runned Foats for culting and, But exercised them by Diqual from the Ship. But front want hannow claste. Expended Chant A. Part folio no I, was ned to Augrecan diej Aguter." Gat in sailing lanned. Repairing Whate boat at fare topo sail, be her hawse at end of watch Herisian Merisian hutel of PM Curage lb. S. Do lolear unies and folimount. Nogy over land. Buttle breeze from M. D. M. Refairing whale Goat and fore lapsair, brans in Lawse lat End of watch bran chain on top of watch past chain on top Fram 4 hutil 8 PM. Tartly Clear with lir lung of ninbus clauds, Light Log of tright The pleasant. Light to 9 with treeze from West Ist pant Calin cafterwards. At 625 Blacked Seat illing. Deut down lap gallent yands and bent light sails vat sunset blus hause vat end of watch Airs from Manth. Cross in hawse fund chain an lat. Dustilling. Examined and found to be correct. En Gallowage &

LOG of the United States Deauer Ling
Moured in the Lianban of Kobe Japan
Rate,

| | | | Reading | | WIND. | | | | BAROME | TER. | TEM | PERAT | URE. | State of | Forms of | lear ths. | Sea. |
|-------|--------|---------|----------------|-------------------------------------|-----------------------------------|--------|-------|---------|-------------------|--------------|-------------------|-------------------|----------------------|-----------------------------|---------------------|------------------------------|--------------|
| Hour. | Knots. | Tenths. | of Patent Log. | Ourses STEERED by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. att'd. | Air, Dry Bulb. | Air, Wet Bulb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Cle Sky, in 10th | State of the |
| . M. | | | | 1€. D. E. | E. D. E. | 1 | | | 30,00 | 61 | 60 | 16 | | S.c. | 10 Yn | 9 | 6 |
| 2 | | | | lack, | " | / | | | 29.99 | 60 | 59 | 56 | | " | " | 9 | " |
| 3 | | | | D. E. Ly D. | No. C. | 1 | | | 29.99 | | | | | " | " | 9 | 4 |
| 4 | | | | €. D. E. | 0" | 1 | | | 30,00 | 08 | 58 | 53 | | " | " | 9 | |
| 5 | | | | n. n. c. | Calu | 0 | | | 30.02 | 57 | 56 | 53 | | J.c. 3. | Cir au | 8 | , , |
| 6 | | | | m. by 16. | " | 0 | | | 30.05 | 57 | 55 | 51 | | " | " | 7 | " |
| 7 | | | | D. M. | " | 0 | | | 30.07 | | | | | " | " | 8 | , |
| 8 | | | | 11 11 | " | 0 | | | 30.08 | | | | | " | - | 8 | 1 |
| 9 | | | | 16. Ey. n. | €. s. E. | 1 | | | 2009 | 61 | 60 | 55 | | .,, | - | 9 | " |
| 10 | | | | 16. E. Ey 6. | | 1 | | | 20.09 | | | | | 9. 2. | None | 10 | 4 |
| 11 | | | | E. Se 96. | " | 1 | | 24/ | 30,06 | | | | | ,, | 11 | 10 | |
| oon. | | | | E. Ly S. | " | 1 | | | 30,06 | | | | | 8.0.3 | Cun Shap | 6. | |
| Oon. | | | | 75. 04. 55. | | | | | | 1 | / | | | 1. | | | T |

| Course and distance made good since preceding noon by observations, | knots. | | tenths. | |
|--|--------|----|----------|--|
| (Latitude by D. R. | 0 | , | " | |
| Longitude by D. R. | 0 | , | " | |
| Position at Noon: { Latitude by observations of ⊙ | | , | " | |
| Longitude by chronometer from Forenoon Observations of ⊙ | • | , | " | |
| (Latitude by | • | , | " | |
| Position at 8 a. m. Longitude by | 0 | , | " | |
| (Latitude by | 0 | , | " | |
| Position at 8 P. M. Longitude by | • | , | " | |
| Current during the time, knots tenths per hour, setting to the | | | | |
| Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head | | , | " " | |
| Variation of the Compass by Amplitude ⊙ observed at Sunset, " | 0 | , | " | |
| Variation of the Compass by Azimuth ⊙ observed at " | | , | " | |
| Variation of the Compass by Azimuth ⊙ observed at " | 0 | , | " | |
| Water expended during the projecting 24 hours, | 9 | 50 | gallons. | |
| Water Wickille during the preceding 24 hours, | 16. | ac | " | |
| Water remaining on hand fit for use at Noon, | 21.0 | 0 | " | |
| Coal consumed during the preceding 24 hours, | 2 ton | 33 | O lbs. | |
| Coal remaining on hand at Noon, | 22 " | 55 | 0 " | |

| P. M. | 1 | | | | | , | | | |
|-------|----------------|----------|---|----------|-----------|--------|--|---|----|
| 1 | 16.96. E. | D. E. | 1 | 3094 63 | - 65 59 0 | 8.0.3. | Di Cum | 5 | 10 |
| 2 | no. E. Ley no. | m. n. m. | / | 30.03 65 | | " | 11 | 1 | |
| 3 | m. Ly no. | " | 1 | 3001 65 | | " | 11 | 3 | " |
| 4 | , | " | 1 | 30,00 60 | 6256 | " | " | 2 | " |
| 5 | no m. Ly no. | 96. E. | / | 30.00 64 | | " | 1 | 2 | |
| 6 | n. E. | " | / | 30,0164 | 63 58 | " | | 3 | |
| 7 | " | 76. m. | / | 30.03 64 | | " | | 3 | |
| 8 | D.D.E. | " | / | 30.05-64 | | " | | 2 | |
| 9 | m. D. m. | " | / | 2010 64 | | " | | 3 | |
| 10 | 2. m. | " | / | 3010 69 | | 4 | " | 2 | " |
| 11 | m. p. m. | " | / | 20,11 64 | | " | | 7 | |
| Mid. | " | * | / | 30.10 63 | | 1 | " | 3 | " |
| | | | 1 | | | | The state of the s | | |

Orumander I. D: Jewell Thursday raprie 19th , U. S. Navy, , 18 88. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Commencering En Until of and from M.E. E. E. D. E. Cher Laure Firom of butil & aus Kient 26. S. 78 balow. Liberty party returned. Ent out what hour. Received and inrand to crew york and fresh beef and Vegatables af Irent in and to have to fallent yands and land chail to a Somline was 150, bonnes in Laure at end of watch years Chain on top Frace 8 all centil Mindian Chungalles 18. who weted Crew at quarters at included intity rafterwards expersised at said of rice, Brave rout Dail-room. Elbon in hause at end of watch. Durtilling It So price June Menedian butil of PM Surger to 1.78.

June M. M. M. Restoned sail room. Char Lawre. CA. A. Delling Firam of little 8 PM. furst half " of M. E. land half. At showed Sown top gallent and royal yours. The blue house. Dustilling Frank PM hutil Midingleh Ling It aims from n. m. shapped wounted fines, lands Scring Luce at gro" clear naws e CA. F. Spoth then Curiquell. 1.78 Kient H. S. A Examined and found to be correct. to Calloway

LOG of the United States Deacuer & say Rate, Marred in the Garber of Kabe Japan

| | | | Reading | | WIND. | | | | BAROMI | ETER. | TEMI | PERAT | | State of | Forms of | Clear 10ths. | e Sea. |
|-------|--------|---------|----------------------|-------------|-----------------------------------|--------|-------|---------|-------------------|--------------|-------------------|-------------------|----------------------|-----------------------------|---------------------|--------------------------|-----------------|
| Hour. | Knots. | Tenths. | of Patent Log. | Sup & Head | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. att'd. | Air, Dry Balb. | Air, Wet Balb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of C Sky, in 10 | State of the Se |
| . M. | | | | D. Ly M. | lealen | 0 | | | 30.11 | 65 | 57 | 53 | | ocg. | Reins | 0. | 0 |
| 2 | | | | Cash | " | 0 | | | 30.09 | | | | | " | " | 0 | ", |
| 3 | | | | D.M. Ly. D. | " | 0 | | | 30.10 | | | | | S.c. 3. | Paris | 5 | ", |
| 4 | | | | " | * | 0 | | | 30.10 | 62 | 57 | 53 | | ",0 | Nineters | 1 | 2 |
| 5 | | | | Week | " | 0 | | | 20.10 | 61 | 56 | 53 | | " | " | 2 | " |
| 6 | | | | m. Ly n. | | 0 | | | 30.10 | 61 | 56 | 53 | | " | " | 3 | " |
| 7 | | | | m no m | " | 0 | | | 30.11 | 61. | 56 | 53 | | " | , | 3 | |
| 8 | | 65 | | D. J. m. | " | 0 | | | 30.12 | | | | | " | Cir Cum | 3 | £ |
| 9 | | | | Cish | East | 1 | | | 30.17 | 61 | 56 | 52 | | " | Cri Cercu | ./ | 1 |
| 10 | | | | £. D. €. | " | 1 | | | 30,17 | 11 | | 53 | | " | , | 1 | 1 |
| 11 | | | | Cuch. | E. 16, E. | 2 | | | 30.17 | 61 | 57 | 52 | | " | Benich | Ö | - |
| oon. | | | | 6.76.6. | 16. by .D. | 1 | | | 3016. | 61 | 58 | 53 | | ocs. | * | 0 | 1 |

| Course and distance | made good since preceding noon by observation | ns, | knots. | | tenths. | |
|---------------------|---|-------------------|--------|------|----------|--|
| | (Latitude by D. R. | | 0 | , | " | |
| | Longitude by D. R. | | | , | " | |
| Position at Noon: | Latitude by observations of ⊙ | | 0 | , | " | |
| | Longitude by chronometer from Forenoon C | Observations of ⊙ | 0 | , | " | |
| | Latitude by | | • | , | " | |
| Position at 8 a. m. | Longitude by | | 0 | , | " | |
| | (Latitude by | | ٥ | , | " | |
| Position at 8 P. M. | Longitude by | | 0 | , | " | |
| Current during the | time, knots tenths per hour, s | setting to the | | | | |
| Variation of the Co | mpass by Amplitude o observed at Sunrise, sh | nip's head | 0 | , | " | |
| Variation of the Co | mpass by Amplitude ⊙ observed at Sunset, | " | | , | " | |
| Variation of the Co | mpass by Azimuth ⊙ observed at | 66 | 0 | , | " | |
| Variation of the Co | mpass by Azimuth ⊙ observed at | и | | , | | |
| Water expended dur | ring the preceding 24 hours, | | | 35 | gallons. | |
| X | during the preceding 24 hours, | | 1. | 40 | -0 " | |
| Water remaining on | hand fit for use at Noon, | | 2 | 80 | -0 " | |
| Coal consumed duri | ng the preceding 24 hours, | | to | ns / | 840 lbs. | |
| Coal remaining on h | hand at Noon, | | 21 | " 9 | 50 " | |
| | | | | 1 | | |

| P. M. | | ~ | | | | | | | | |
|-------|--------------|--------------|---|-----------|----|-----|---------|------|---|---|
| 1 | 16.70 €. | Care | / | 30/46/ | 08 | 54 | vez. | nuit | 0 | 0 |
| 2 | E. Ly 1. | Calm | 0 | 30 14 62 | 60 | 65 | " | 41 | 0 | - |
| 3 | no. Ly m | " | 0 | 20 14 62 | 6/ | 56 | 4 | " | 0 | - |
| 4 | m. 76.m. | 76.€. | / | 20 14 64 | 62 | 57 | " | 4 | 0 | - |
| 5 | n.m. | 16. E. Ly 6. | / | 30 14 63 | 62 | 5-4 | | | 0 | |
| 6 | M. T. Ly M. | " | 1 | 20 15 63 | 62 | 58 | | " | 0 | - |
| 7 | Much | Calcu | 0 | 20/4 63 | 62 | 58 | " | 1 | 0 | |
| 8 | ") | - 11 | 0 | 2014 63 | 62 | 58 | | " | 0 | 1 |
| 9 | East | East | / | 20 13 63 | 62 | 59 | | " | | * |
| 10 | | 76.6. | / | 30 14 63 | | | " | " | | |
| 11 | No. E. Ly E. | | 1 | 30 19 63 | | | 0.0.90. | 1 | | |
| Mid. | ", | * | 1 | 30 11 63. | | | | " | 0 | |
| | | | 1 | 1 | 1 | | | 1 | | |

Communder 2. 2. Jawell Briday dapnie 20th , U. S. Navy, , 1888 . RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Commencing & hutil & all land level from & lut hour love in Lawre 1866 chain on tapo. From H lutil 8 all Chanty Sagy Calm. Becived in Pay sept 98 lbs of fresh swad for usine to lean Ap 1/15 Crass top gallens at royal yand to brain in house stoo chain on tap

Draw of all lutil Meridian

Change 26. J. 18 erand sat fire quarters and then at -abandon ship. By ander of bounds officien blaced A. Bergenan, 1. CA, in Salitary and encuent for three Says for Surabeying order of Chief Bontanans Mate. Phipped as land seen an for the Course & Danner Fram. Meridian hutil APS.

Ourcast Logy & Johnand, balin & Light airo from
Cost Sunters, Ballmades repairing yard & mark lavers, banfolishes Mate finaled repaire to
Cost Sunters, Effended in Construction Dept 30 feet Joine timber in the repair, bolish
Lower Train of Mettel. 8. PM. Some sayal Yero's Part lunde preparations for Galing this Recursion for Galing this Recursion for Galing this Recursion for Galing this Recursion for Jan Caling this Recursion for John Country on Food Frame Son. E. Schoon in haure food chain on tap Lieut. l. S. B. Hurigh W. J. 8 Examined and found to be correct. Lalloway Lieb

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Marred in the Learbar of Robe Japan

| | | | | | | | | | _ | | - | - | | | | | _ |
|-------|--------|---------|----------------|-------------------------------------|-----------------------------------|--------|-------|---------|-------------------|--------------|-------------------|-------------------|----------------------|-----------------------------|---------------------|--------------------------------|----------------|
| | | | Reading | | WIND. | | | | BAROME | ETER. | TEM | PERAT | TURE. | State of | Forms of | lear ths. | 6 Sea. |
| Hour. | Knots. | Tenths. | of Patent Log. | OURSES STEERED by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. att'd. | Air, Dry Bulb. | Air, Wet Bulb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Clea Sky, in 10ths | State of the S |
| A. M. | | | | 6. Ly. 16. | 16. Ey. E. | 2 | | | 30,10 | 63 | 61 | 58 | | aen | Cum | 0 | 0 |
| 2 | | | | 16. Ly E. | * | 2 | | | 30,08 | - | - | 09 | | " | - 1 | 0 | " |
| 3 | | | | n. E. Ly n. | # | 3 | | | 30,07 | 62 | 60 | 08 | 1.7 | " | " | 0 | ., |
| 4 | | | | 16 n. 6. | 1. | 4 | | | 20,05 | 62 | 60 | 58 | | | * | 0 | 1, |
| 5 | | | | 76. E. Ly E. | 16. E. Ly 6. | 3 | | | 30,00 | 62 | 61 | 59 | | L.c.r. | " | 4 | 1, |
| 6 | | | | E. Ly. 16 | " | 9 | | | 30,00 | 62 | 62 | 59 | | L.C. 3. | Que shi | 1 | " |
| 7 | | | | no. 16.83 E | × | 3 | | | 3001 | 62 | 60 | 57 | | acg. | Ci Cum ste | U | 11 |
| 8 | | | | , | 4 | 3 | | | 30,00 | 62 | 60 | 57 | | " | Aun mine | 0 | " |
| 9 | | | | 1 | n- | 3 | | | 3098 | 62 | 60 | 54 | | " 0 | " | 0 | 1, |
| 10 | | | | 11 | 4 | 3 | | | 3094 | 62 | 60 | 58 | | ast. | " | U | 1, |
| 11 | | | | 11 | " | 2 | | | 3093 | 62 | 61 | 58 | | 1 | - " | 0 | 1, |
| Noon. | | | | 76.96.m | m of m | / | | | 30,93 | 63 | 61 | 59 | | oct. | " | 0 | " |
| | | | | | | | | | | | | | | | | | 1 |

| 17 101 /6: 3 | - | |
|--|----------|----------|
| Course and distance made good since preceding noon by observations, | knots. | tenths. |
| (Latitude by D. R. | 0 , | " |
| Longitude by D. R. | 0, | " |
| Position at Noon: Latitude by observations of ⊙ | . , | " |
| Longitude by chronometer from Forenoon Observations of ⊙ | ۰ , | " |
| (Latitude by | 0 , | " |
| Position at 8 a. m. Longitude by | 0 , | ", |
| (Latitude by | 0 , | " |
| Position at 8 P. M. Longitude by | 0 , | " |
| Current during the time, knots tenths per hour, setting to the | | |
| Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head | 0 , | " |
| Variation of the Compass by Amplitude ⊙ observed at Sunset, " | 0 , | " |
| Variation of the Compass by Azimuth ⊙ observed at " | 0 , | " |
| Variation of the Compass by Azimuth ⊙ observed at " | 0 , | " |
| Water expended during the preceding 24 hours, | 350 | gallons. |
| Water during the preceding 24 hours, | | u |
| Water remaining on hand fit for use at Noon, | 2000 | " |
| Coal consumed during the preceding 24 hours, | tons 4 | o lbs. |
| Coal remaining on hand at Noon, | 111 " 53 | 0 " |
| | | |

| . М. | 50 / | 71 5 | , | | 11 | | 0 -11 | 0 | |
|------|----------------|--|----|-----------|-----|----|---------|------|---|
| 1 | 76.€. | 26.6. | / | 29.88 63 | | - | 0, 0, 4 | nucl | 6 |
| 2 | " | " | 2 | 29.8761 | 63 | 59 | " | " | 0 |
| 3 | " | " | 2 | 24.8460 | | | * | " | 0 |
| 4 | 16. E. Ly. 16. | " | / | 29.8263 | | | , | | 0 |
| 5 | 76. E. Ly 6. | The state of the s | / | 29.80 61 | | | " | | 0 |
| 6 | 6.96.6. | 6.76.6. | /, | 29.78. 63 | 61 | 60 | " | | 4 |
| 7 | no. 16. Ly . E | | /, | 29.7763 | 61 | 60 | " | | 0 |
| 8 | " | m.76.m. | / | 29.7663 | 616 | 60 | * | 4 | 0 |
| 9 | Much | M. D. M. | /, | 29.80 63 | | | ," | + | 0 |
| 10 | N. E. | 16 D. G. | / | 29.80 63 | | 1 | 2.6.7 | | 2 |
| 11 | Mish | mists " | | 298063 | 61 | 60 | y.c. | * | 2 |
| lid. | ", | " | / | 29.80 63 | 61 | 60 | " | 1 | 1 |

under the command of Commander J. J. Lewill, , U. S. Navy, Dapunday africe 3/2/, 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Lowerence ing Es hutil of all numb clouds, boutineal rain. Light to moderate breeze from M. E. Elbor in Lawse at end of Watch Stefamintations. Heave of Electil & all Charge Low raincy. Gentle breze from No Eby E. Began Caling at Jos acts. Char Lawre os. F. Gentun From 8 and leutil Meridian Lieury rain last fourt. Light airs to gencle Irreeze from H & by & Mr. H. M. J. Millenins, Dea, was brought off by police was was placed under sentry change to soby by order of the land officers. Dimented Coaling this. Recewed in new go tous, blur hawse From Mendian with I am " wind claud. Continual rain, heavy at times, Light aims to herege from 16 & Transported no 1 gum each side to place. Cher hawse at eus of watch. Je sour flutil 8. Por. R. m. M. for a man of War Come in, bline hause Lunique the S. 88 From 8 PH little 978 ideight Variable airs. Melear Leawer of ent of watch & a Ingrest Herving orthing of the leave. Overcast with theavy rain I at hour. A. C. Faruestone Musega 26 S19 Examined and found to be correct. En Galloway

| | | | Reading | | WIND. | | | | BAROME | ETER. | TEM | PERAT | URE. | State of | Forms of | lear ths. | e Sea. |
|-------|--------|---------|----------------|--------------------------------------|-----------------------------------|--------|-------|---------|-------------------|--------------|-------------------|-------------------|----------------------|-----------------------------|---------------------|----------------------------------|----------------|
| Hour. | Knots. | Tenths. | of Patent Log. | COURSES STEERED by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. att'd. | Air, Dry Bulb. | Air, Wet Bulb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Clear Sky, in 10ths. | State of the S |
| . M. | | | | Week | Mesh | 1 | | | 29.81 | 63 | 61 | 60 | | f. c. | Cri aun+ | 6 | 16 |
| 2 | | | | m. Ly. D. | " | / | | | 29.81 | 63 | 60 | 58 | | " | " | 6 | 1 |
| 3 | | | | much | " | 1 | | | 2984 | 63 | 59 | 58 | | " | Ruich | 5 | - |
| 4 | | | | m. s. m | , " | 1 | | | 29.84 | 63 | 60 | 58 | | ," | " | 2 | - |
| 5 | | | | No. Ly. E. | Calu | 0 | | | 2985 | 63 | 60 | 59 | | 3. c. f. | " | 3 | - |
| 6 | | | | no. E. Ly . E. | " | 0 | | | 2987 | 63 | 60 | 39 | | o.e. L. | " | 0 | - |
| 7 | | | | E. n. E. | " | 0 | | | 2989 | 63 | 60 | 09 | | " | " | 0 | |
| 8 | 3 64 | | | No. by E. | 11 | 0 | | | 29.88 | 63 | 60 | 59 | | , | " | 0 | - |
| 9 | | | | Wesh | M. Ly. D. | / | | | 2991 | 63 | 60 | 09 | | 0 e 3. | Come str | 0 | - |
| 10 | | 776 | | " | A. S. M. | 1 | | | 29.90 | 62 | 61 | 60 | | 3. c. 2 | nich & | 11 | - |
| 11 | 1 | 1 | | D. M | " | 2 | | | 29.91 | 64 | 63 | 61 | 1 | 0,00 | nucles | 10 | - |
| Voon. | | | | " | D. M. | 2 | | | 3991 | 64 | 63 | 61 | | " 0. | " | 0 | - |

| Course and distance | made good since preceding noon by observations, | knots. tenths. |
|---------------------|--|----------------|
| | (Latitude by D. R. | 6 / // |
| | Longitude by D. R. | 0 1 11 |
| Position at Noon: | Latitude by observations of ⊙ | 0 1 11 |
| | Longitude by chronometer from Forenoon Observations of ⊙ | · / // |
| | (Latitude by | 0 , " |
| Position at 8 a.m. | (Longitude by | 0 1 " |
| | (Latitude by | 0 11 |
| Position at 8 P. M. | Longitude by | 0 / " |
| Current during the | time, knots tenths per hour, setting to the | |
| Variation of the Co | ompass by Amplitude o observed at Sunrise, ship's head | 0 1 11 |
| Variation of the Co | ompass by Amplitude ⊙ observed at Sunset, " | 0 / // |
| Variation of the Co | ompass by Azimuth ⊙ observed at " | 0 / // |
| Variation of the Co | ompass by Azimuth ⊙ observed at " | 0 / // |
| Water expended du | ring the preceding 24 hours, | Go gallons. |
| Water | during the preceding 24 hours, | 4 |
| Water remaining or | n hand fit for use at Noon, | 2150 " |
| | ing the preceding 24 hours, | tons 400 lbs. |
| Coal remaining on | hand at Noon. | 111 " 150 " |

| | | | ********* | | | | | | - |
|-------|--------------|----------|-----------|-------------|--|-----------|---------|----|---|
| P. M. | | | | | | | -67 | | |
| 1 | D. M. | M.D.M. | 2 | 29.87 63 62 | 60 | 0,0, | neich. | 0. | 0 |
| 2 | M. D. M. | " | | 29.86 64 63 | | 8.0.3. | " | 5 | |
| 3 | Douth | D. D. M. | 2 | 29.84 65 63 | | " | ann | / | " |
| 4 | D. m. Ly. D. | " | 2 | 29.84 66 60 | | " | and str | 3 | 4 |
| 5 | " / | ," | / | 29.84 66 63 | 62 | " | " | | - |
| 6 | 2.6. | Calm | 0 | 29.8467 63 | | | " | 6 | - |
| 7 | D. E. Ly. D. | " | 0 | 29.8465 63 | | | ar him | 5 | " |
| 8 | 2.6. | " | 0 | 29.846662 | | | | 5 | " |
| 9 | South | D. D. E. | / | 2988 65 63 | | | | | " |
| 10 | Cash | 76. E. | / | 29.88 65 65 | | 3.c. g.x. | and Eli | 1 | 1 |
| 11 | 76.6. | balu | 0 | 29.87 60 62 | No. of Concession, Name of Street, or other Persons, Name of Street, or ot | 0,036 | " | 0 | " |
| Mid. | Cash | " | 0 | 29.86.65 63 | and the latest designation of the latest des | Q. e.z.r | " | 0 | " |
| | , | | | | | 0 | | | |

Dommandets D. D. Jewell. , U.S. N. Dunday april 22 mb , 1888. , U. S. Navy, RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Commencing & autel of acts
Claudy to fair Weather Light airs from Mich bless Frame of lutil 8 acres Cusique 76. S. 18. Department 99 the of fruit bread. By arise of County Officer relused Just memerin sea, from Sentry's charge be being Dober. At & Sent Goanding afficers to Rusian hear of War That came in last english. Clear house Mistoggatt &. Fram falls butil Meridian Generally over cust ted Claudy; Clearing slightly Dur Lour Claudo. aun Atr. Minh Es lis Cum. diglet ains to Grege from or by so. to D. D. Mr. Ah 930. Coundy Officer impected ship with lieur at quanters, vol sent with aut leave. I.F. bound, O.M. for whave apprehension a viwant of so yen was aftered and sent on share. By ander of bounds afficient, vileased I Novan 16 %, the line for which he was confined having expoired. Crass in house at end of Watch. Dent a liberty party on Trown Meridian with of BY Claudy increasing to Kair Weather. Marin. Hogy. Light ains to livege from Mr. s. M. Led S. D. M. vat 315 held device Service. The County offer of N. J. R. M. D. Maiegonix paid an afficial Sixet to this ship. C wars in hower fair Chain an tap From of lutil 8 Pm Lucigu U.S. 78 Partly Clear West lir Com End Strat Claudo Wazy. Light airs former D. D. M. finet Lour. Calin rapperwants. Conne 2. 1 1 Clouestone From & PM hutil Midinglety Curegin 16 S. 78. Cloudy Edavercast with Lingling Fain. of watch. Elbor in Lawre vat lend of watch, band chain on top Examined and found to be correct.

LOG of the United States Obacuers Esse 3nd Rate,
Maares in the Learbar of Krbe Japan

| | | | | | WIND. | | | | BAROMET | TER. | TEMI | PERAT | URE. | | | ear bs. | Sea. |
|-------|--------|---------|---------------------------------|--------------------------------------|-----------------------------------|--------|-------|---------|-------------------|-------|-------------------|-------------------|----------------------|---|------------------------------------|--------------------------------|----------------|
| Hour. | Knots. | Tenths. | Reading of Patent Log. | COURSES STEERED by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. | Air, Dry Balb. | Air, Wet Bulb. | Water at Surface. | State of the Weather, by symbols. | Forms of Clouds, by symbols. | Prop. of Clea Sky, in 10ths | State of the S |
| A. M. | | | | E. 76. 1E. | Calcu | 0 | | | 29.83 | 62 | 61 | 60 | | 0.C. N. | Com Ninels | 0 | 50 |
| 2 | | | | East | , | 0 | | | 29.81 | | | | | " | " | 0 | |
| 3 | | | | Manth | " | 0 | | | 29.81 | 62 | 61 | 60 | | " | " | 0 | |
| 4 | | | | 16. E. | " | 0 | | | 29.816 | 62 | 61 | 60 | | | " | 0 | |
| 5 | | | | E. Ly. D. | ~ " | 0 | | | 29.81 | 63 | 61 | 60 | | " | " | 0 | - |
| 6 | | | | Ench | tuch | 2-3 | | | 29.810 | | | | | 0.0.9.2 | . 11 | 0 | - |
| 7 | | | | " | " | 2-4 | | | 29.83 | | | Mark Color | | " | " | 0 | - |
| 8 | | | | C. Ly , 96. | " | 3-4 | - | | 29.82 | | | | | " | " | 0 | - |
| 9 | | | | No. 16. Ly. 16. | " | 3 | | | 29.82 | | | Mary Colonia | | 0.e. N. | " | 0 | 1 |
| 10 | | 1 | | €. 16. €. | " | 3 | | | 29.80 | | - | | | " . | " | 0 | - |
| 11 | | | 200 | E. by 16. | " | 3 | | | 29.80 | | | - | - | " | " | 0 | |
| Noon. | | | | " | " | 3 | | | 29.79 | 6/ | 28 | 07 | | " | " | 0 | " |

| Course and distance | made good since preceding noon by observations, | knots. tenths. | |
|---------------------|--|-----------------------------------|--|
| | [Latitude by D. R. | 0 / 7/ | |
| | Longitude by D. R. | 0 / " | |
| Position at Noon: | Latitude by observations of ⊙ | 0 , " | |
| | Longitude by chronometer from Forenoon Observations of ⊙ | • , " | |
| | (Latitude by | · , , | |
| Position at 8 a. m. | Longitude by | 0 , " | |
| | (Latitude by | 0 , " | |
| Position at 8 P. M. | Longitude by | 0 , " | |
| Current during the | time, knots tenths per hour, setting to the | | |
| Variation of the Co | mpass by Amplitude ⊙ observed at Sunrise, ship's head | 0 , " | |
| Variation of the Co | mpass by Amplitude ⊙ observed at Sunset, " | 0 , " | |
| Variation of the Co | mpass by Azimuth ⊙ observed at " | 0 1 " | |
| Variation of the Co | mpass by Azimuth \odot observed at " | 0 / " | |
| Water expended du | ring the preceding 24 hours, | 950 gallons. | |
| Water | during the preceding 24 hours, | " | |
| Water remaining on | hand fit for use at Noon, | 1.800 " tons 400 lbs. 110 "1990 " | |
| Coal consumed duri | ng the preceding 24 hours, | tons 400 lbs. | |
| Coal remaining on l | hand at Noon, | 110 "1990 " | |
| | | | |

| _ | | | | | | | | - | - | Name and Address of the Owner, where |
|-------|--------------|---------------|---|---------|----|-----|----------|------------|---|--------------------------------------|
| P. M. | | - 0 (| | | | | | | | |
| 1 | 6. Ly 16. | C. Ly. 18. | 2 | 29.7760 | 58 | 57 | 0. c. s. | Cun Viciol | 0 | 0 |
| 2 | Enil | " | 2 | 29.7461 | | | | " | | " |
| 3 | 6. Ly. D. | c", | 2 | 297361 | | | | " | 0 | -, |
| 4 | 16.6. Ly. C. | 78. 16. Ly 6. | 1 | 29.7461 | | | " | " | 0 | ., |
| 5 | 76.76. M. | Calu | 0 | 297461 | 60 | 59 | | " | 0 | - |
| 6 | m. Ey. 16. | | 1 | 297561 | 60 | 59 | o.c. | / | 0 | 7 |
| 7 | m. 76. m. | | 1 | 2977 61 | 60 | 59 | 8.0.3. | " | 0 | ** |
| 8 | " | " | / | 2976 62 | 61 | 59 | 8.0.3. | , | 2 | 4 |
| 9 | " | ," | 1 | 298/65 | | | o.e. | " | 2 | 3 |
| 10 | D.m. Ly m. | balu | 0 | 2983 61 | | | " | " | 0 | " |
| 11 | m. Ly. 98. | " | 0 | 298462 | | | " | * | 0 | - |
| Mid. | 76. 107. | " | 0 | 298562 | 60 | 579 | | " | 0 | , |
| | | | | | | 1 | | | | |

Commander J. D. Jewell Monday april 23rd , U. S. Navy, , 1888. . RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Commences Es yestel of aux. Elbow in Lawre at ent of Watch bant chain an las Fram of hutil 8 all Oversast with heavy and the much. Claudo. Coutunal heavy raine. Calcu finisham, light to maderate breeze in light squales offerwards. Liberty fearly returned. Received and essenced to hew 123 2/4 lbs each of fresh beef and Vegatable, value go the of fresh breef heave. Charles have Se Count touce. at end of work From & all with Meridian lunger 0, J. 88. Overcast Claudy Et rainey. Souble Errege from tack. Upper gudgeon af dinglys rudder reparted Graxen. Jas Farrell, che a. m., repurind the & Leauns aver time. By ander of bound afficer reliased st. Bergenan 1 CA, from lanfinement, blur hause. ICA, from lanfinernech, Clear Lawre. J. Joonna Fram Miridean until 4 MB. Musign lb. S. 1 Rainey. Light Errege Jonat. 16. by. 18. Curigu. V. S. 78. and 78. E. Ly 16. Colins Leawse at end of watch. CAT Stehning From of lentil & Ports Overcast as Claudy With rain finit Laux. Charing last half. Calm final Leaux, by Est ains from M. M. temainder of inne for five (5) days, for Dunggling liques. M. J. aprice, D. Work, Was this vay reduced to the vate of Landsman. At Sunset Sund Sown lop gallant yards Es Marts. Clear Leavese Firaux 8. M. Westil Medwight Cureges U. S. 78. N. Mr. Sken Colon Color Lune A temon Charge & J. 78 Examined and found to be correct.

Les alloway & Navigator.

| | | | Reading | | WIND. | | | | BAROME | TER. | TEM | PERAT | URE. | State of | V | lear ths. | Sea. |
|-------|--------|---------|----------------------|-------------------------------------|-----------------------------------|--------|-------|---------|-------------------|--------------|-------------------|-------------------|----------------------|-----------------------------|------------------------------------|--------------------------------|--------------|
| Hour. | Knots. | Tenths. | of Patent Log. | OURSES STEERED by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. att'd. | Air, Dry Bulb. | Air, Wet Bulb. | Water at Surface. | the Weather, by symbols. | Forms of Clouds, by symbols. | Prop. of Clea Sky, in 10ths | State of the |
| A. M. | | | | 76. E. Ly. H. | Calu | 0 | | | 29.86 | | | | | 0.0.3, | Line & Frais | 0 | 9. |
| 2 | | | | m. 16. m. | " | 0 | , | | 29.86 | 62 | 5.9 | 58 | | " | 4 | 0 | " |
| 3 | | | | Hart | " | 0 | | | 29.86 | 63 | 60 | 58 | | " | " | 0 | " |
| 4 | | | | No. 16. by . E. | 76 E. Ley E. | 1 | | | 29.88 | | | | | " | " | 0 | |
| 5 | | | | V€. 16. V6. | 6.76.C. | 1 | | | 29.89 | 61: | 58 | 57 | | O. C. X. | " | 0 | 16 |
| 6 | | | | 76 Ly m | Calen | 0 | | | 29.87 | 6% | 97 | 58 | | . ". | " | 0 | 1 |
| 7 | | | | m Ley 18. | 4 | 0 | | | 29.89 | 61 | 59 | 58 | | , " | , | 0 | 1 |
| 8 | | | | Ment | South | 1 | | | 29.90 | 61 | 60 | 58 | | " | 4 | 0 | 1 |
| 9 | | | | m. s. m. | , " | / | | | 29.95 | 61 | 59 | 08 | | o.c.u. | " | 0 | , |
| 10 | | | | D. m. La m. | Calu | 0 | | | 29.97 | 62 | 60 | 09 | | " | 1 | 0 | |
| 11 | | | | D. 17. | Dauth | 1 | | | 29.97 | | | | | 0.c. u. d. | 1 | 0 | |
| Noon. | | | | S. Leg M. | 11 | 1 | | | 29.96 | 62 | 59 | 08 | | o.e.u. | | 0 | |

| Course and distance | e made good since preceding noon by observations, | knots. tenths. |
|---------------------|--|---|
| | Latitude by D. R. | 0 / " |
| | Longitude by D. R. | · , , |
| Position at Noon: | Latitude by observations of ⊙ | 0 / // |
| | Longitude by chronometer from Forenoon Observations of ⊙ | 0 , , |
| | (Latitude by | 0 / // |
| Position at 8 a. m. | (Longitude by | 0 / // |
| | (Latitude by | 0 , " |
| Position at 8 P. M. | Longitude by | 0 / " |
| Current during the | time, knots tenths per hour, setting to the | |
| Variation of the Co | ompass by Amplitude o observed at Sunrise, ship's head | 0 / // |
| Variation of the Co | ompass by Amplitude o observed at Sunset, " | 0 / " |
| Variation of the Co | ompass by Azimuth ⊙ observed at " | 0 , " |
| Variation of the Co | ompass by Azimuth ⊙ observed at " | 0 , " |
| Water expended du | aring the preceding 24 hours, | 350 gallons. |
| Water | during the preceding 24 hours, | " |
| Water remaining or | n hand fit for use at Noon, | 1400 " |
| Coal consumed dur | ing the preceding 24 hours, | 1400 " tons 400 lbs. |
| Coal remaining on | hand at Noon, | 110 "1590 " |
| | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |

| 1 | P. M. | | | | | | | | | | |
|--|-------|---|--------------|----------|----|----------|-------|----------|-----------|----|---|
| 2 3 | 1 | | D. M. Ly D. | D. D. m. | 1/ | 29.95-63 | 60 59 | 0. e. 3. | Cim minel | 0 | 0 |
| 4 | 2 | | - | " | 1 | 29.95 63 | 61 09 | ," | " | 0 | " |
| 4 | 3 | | D. Ly. C. | 2.2.6 | / | 29.93 63 | 61 60 | L.c. 3. | " | 2 | " |
| 6 29.9563 61 60 " " 1 29.9563 61 60 " " " 0 29.9563 61 60 \$. c. g. ai ann 1 " 3 29.95 63 61 60 " " " 3 3 3 3 61 60 " " " 3 3 3 61 60 " " " " 3 61 61 60 " " " " " 10 29.95 63 61 60 " " " " " 10 29.97 64 61 60 \$. c. f. a 7 " " 10 29.97 64 61 60 " " " " " 7 " " " 7 " " " 7 " " " 7 " " " 7 " | 4 | | 11 | D. Ley 6 | | 29.93 63 | 61 60 | 0. c. 2. | " | 0 | |
| 6 2.6. by. 6. " 7 29.95 63 61 60 \$. c. g. mind 8 29.95 63 61 60 " 9 70. 16. " 0 29.96 63 61 60 " 10 70. by. 8. " 0 29.98 63 61 60 " 10 70. by. 8. " 0 29.98 63 61 60 " 10 70. by. 8. " | 5 | | ", | " | 4/ | | | | " | 0 | " |
| 8 D. D. J. S 0 39.96 63 61 60 di Am J 10 39.97 64 61 60 8.c. f. n J 10 10 10 10 10 10 10 10 10 10 10 10 10 | 6 | | D. E. Ly. 6. | , , " | 1/ | 29.9563 | 61 60 | 8.09. | neine | / | |
| 10 M. bey. D. " 29.98 63 61 60 " " 7 | 7 | | 3 1 10 | Calu | 0 | 29.95 63 | 61 60 | | | | - |
| 10 M. by. D. " 29.98 63 61 60 " | 8 | | 2. 2.06. | " " | 0 | 29.9663 | 61 60 | ,". | Cir Fun | 7, | - |
| 10 M. by. D. " 29.98 63 61 60 " | 9 | | 76. m. | . " | 0 | 29.97 64 | 6160 | 8. c. y. | 1 | 7 | - |
| | 10 | | m. by. D. | " | 0 | 29.98 63 | 6160 | " | 41 | 1 | - |
| 11 16. M. " 29.98 63 61 60 " - 7 | 11 | | n. m. | " | 0 | 29.98 63 | 61 60 | | - | 1 | - |
| Mid. 1 Mby. 78. " 0 29.99. 63 61 60 " - 6" | Mid. | 4 | M Ly. 78. | " | 0 | 29.98.63 | 61 60 | " | * | 6 | |

Danwanter D. D. Lewell, Quarant apapail 24ths , U. S. Navy, , 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Commences & lintil of acts Overcust & hogy, balu. Light airs from 16. E. by SE. Clear Lawse Le first hour. Calle week to Leans, then leght airs from E. 98. Sent up top gallent macho & Yando. By ander of banning officer placed A. Namsen set, under Sentryo Change for intay iention. Class have Type for on the party of the formal of the sent for using to crew. The for one of the sent for using to crew. Lingue 26 & 78. Overcast with light wish Calin as light airs From D. M. At 1000 Battalion landed as enfantry, legter marching arter, D. Kendrier M. 2, and I F: leavery, Pm, Were Granglet on Grand by police the farmer 2 f and the latter of hours aver time, Rewards of few year each were baid for same also for Jun Milliams, sea, Cammander pair van afficial Visit to the Russian Man of mon Russian Convelle saluted the German Coansul, Dea Sunath. Comes in house fort havi on top Fracu Menideau Ucutil of PM Lingst ain finance is some to Describe Lings Linguist ain finance is some to a faw line. Dail-luaron gang repairing Spanker bonn die leave fant chain on top Eurege le J. 8 Fram 4 leetil 8 PM light ain fram D. Ly. 6. Claudy. Hogy Grass in hourse fast chain on top 62 Freeman Frams Por butil Midjught Lient U. S. D. Generally clear. Foggy. Calm. Cheor Leaves Lingu 16. 1. 78 Examined and found to be correct. E. S. Jalloway En

| Reading of Patent Log. | COURSES STEERED by Standard Compass. Diefo News M. Ly H. | WIND. Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | | | | Waterat Surface. | State of the Weather, by symbols. | Forms of Clouds, by symbols. | Prop. of Clear Sky, in 10ths. | State of the Sea. |
|---------------------------------|--|---|--|--|--|--|--|---|--|---|--|---|--|--|
| of Patent Log. | by Standard Compass. Slip's News M. Ly H. | Compass. | | Heel. | Leeway. | Height in inches. | Ther. att'd. | Air, Dry Bulb. | Air, Wet Bulb. | Water at Surface. | the Weather, | Clouds, by | Prop. of (Sky, in 10 | State of th |
| | / / | loster | | | | 1000 E | | | 100000 | | | | | |
| | / / | - Cuu | 0 | | | 20.01 | 63 | 60 | 59 | | S.e. 8. | Li Cum | 3 | D |
| | D. M. Ley. M | " | 0 | | | 3003 | | | | | , | Come str | 1 | |
| | 26 | " ' | 0 | | | 30.04 | 63 | 60 | 5-9 | | 0,0,4 | am mich | / | " |
| | E. A. E. | " | 0 | 1 | | | | | | | J. c. 03 | " | 2 | , |
| | D. E. by & | | 0 | | | | | | | | " | Ci Cum | 2 | " |
| | A. m. Ley D. | | 9 | | | 30.06 | 62 | 07 | 58 | | . 1. | | 5 | " |
| | Am. | m. D. m. | 1 | | 1.0 | | | | | | " \ | " | 7 | |
| | 2.18. | " | 2 | | .4 | 30.18 | 63 | 60 | 59 | | | " | 17 | 1.0 |
| | D. Ly. &. | Calm | 0 | | | 1 | - | - | | | | * | 7 | - |
| | South | D. D. E. | 1 | | | | | | - | | , | | 7 | - |
| | P | . " | 1 | | - | - Francisco | - | | | | " | | 19 | |
| | D.D.M. | D. 18. | 1 | | | 30.09 | 65 | 64 | 60 | | * | - | 8 | - |
| | | 6. 1. 6. D. 6. by 6 D. m. sy 6. D. M. by 6 Dauth, D. 6. by 6 | 6. S. E. " D. E. Say & " D. m. say D. " D. M. D. M. D. E. " Dauth D. D. E. D. C. Ey E. " | E. A. E 0 D. E. Sy & 0 D. M. Sy D 9 D. M. D. M. 1 D. E 2 Dautty D. D. E. 1 D. E. Ley E 1 | 16. A. E 0 D. E. Sy E 0 D. M. Sy D 1 D. LE 2 D. Le. Ey E balue 0 Dauth D. D. E. 1 D. E. Ey E 1 | E. S. E 0 D. E. Sy E 0 D. m. sy D 9 D. M. D. M. 1 D. E 2 Dauth D. D. E. 1 D. E. Ey E 1 | E. A. E. " 0 30.04 D. E. Sey & " 0 30.06 D. M. Sey D. " Q 30.06 D. E. " 2 30.10 Dautty D. D. E. 1 30.10 Dautty D. D. E. 1 30.10 | E. A. E. " 20.0463 D. E. Sey & " Q 30.0463 D. M. Sey D. " Q 30.0662 D. M. D. M. 1 30.0762 D. E. " 2 30.1063 Dautty D. D. E. 1 30.1063 Dautty D. D. E. 1 30.1063 | E. A. E. " 20.0463 60 D. E. Sey & " Q 50.0463 60 D. M. Sey D. " Q 50.0662 07 D. M. D. M. 1 30.0762 60 D. E. " 2 30.1063 61 Dauth D. D. E. 1 30.1063 62 Dauth D. D. E. 1 30.1063 63 | E. A. E. " 20.0463 60 59 D. E. Sey & " 0 \$20.0463 60 58 D. M. Sey D. " Q \$20.0662 09 58 D. M. D. M. 1 \$30.0762 60 08 D. E. " 2 \$30.1063 61 60 Pautty D. D. E. 1 \$30.1063 62 09 D. E. Sey & " 1 \$30.1063 63 60 | E. A. E 0 30.0463 60 09 D. E. Sey & 0 30.0463 60 58 D. M. Sey D Q 30.0662 09 58 D. M. D. M. 1 30.0762 60 08 D. Le 2 30.1063 60 59 Dautty D. D. E. 1 30.1063 62 09 D. E. Sey E 1 30.1063 62 09 D. E. Sey E 1 30.1063 63 60 | E. S. E 0 30.0463 60 09 5.6.09. D. E. Ey E 0 50.0662 09 58 D. M. Sy D 1 30.0762 60 08 D. E 2 30.18 63 60 59 D. E 2 30.10 63 61 60 Dautt D. D. E. 1 30.10 63 62 09 D. E. Ey E 1 30.10 63 63 60 | E. A. E. " 20.0463 60 09 5.8.49 " 20.0463 60 58 " 20.0463 60 58 " 20.0463 60 58 " 20.0662 09 58 " 20.0662 09 58 " 20.0662 09 58 " 20.0762 60 058 " 20.1868 60 59 " 20. | E. S. E. " 0 30.0463 60 59 5.8.09 " 2. Cam 2 D. E. Sy E " 0 30.0662 09 58 " Gram 2 D. M. Sy D. M. 1 30.0762 60 58 " " 7 D. E. " 2 30.10 63 60 59 " " 7 Dautt D. D. E. 1 30.10 63 62 09 " " 7 D. E. Ey E " 1 30.10 63 62 09 " " 7 D. E. Ey E " 1 30.10 63 63 60 " " 9 |

| Course and distance | made good since preceding noon by observations, | | | knots. | te | nths. | |
|----------------------|---|-----------------|-----|--------|-------|----------|--|
| | (Latitude by D. R. | | | 0 | , | " | |
| | Longitude by D. R. | | | 0 | , | " | |
| Position at Noon: | Latitude by observations of ⊙ | | | 0 | , | " | |
| | Longitude by chronometer from Forenoon Obs | servations of ⊙ | | 0 | , | " | |
| | (Latitude by | | | 0 | , | " | |
| Position at 8 a. m. | Longitude by | | | 0 | , | " | |
| | (Latitude by | | 161 | 0 | , | " | |
| Position at 8 P. M. | Longitude by | | | • | , | " | |
| Current during the | time, knots tenths per hour, sett | ting to the | | | | | |
| Variation of the Co | mpass by Amplitude o observed at Sunrise, ship | 's head | | 0 | , | " | |
| Variation of the Con | mpass by Amplitude ⊙ observed at Sunset, | " | | 0 | , | " | |
| Variation of the Con | mpass by Azimuth © observed at | " | | | , | " | |
| Variation of the Con | mpass by Azimuth o observed at | " | | • | , | " | |
| Water expended dur | ring the preceding 24 hours, | | | 9 | 50 | gallons. | |
| Water | during the preceding 24 hours, | | | | | " | |
| Water remaining on | hand fit for use at Noon, | | | 1/0 | 20 | " | |
| | ng the preceding 24 hours, | | | ton | 8 4 o | v lbs. | |
| Coal remaining on h | and at Noon, | | | 110 " | 119 | 0 " | |
| | | | | | - | | |

| | | | | | | - | | | _ | | | | | | - |
|-------|---|-------------|----------|---|------|---|-------|-------|----|-----|---|---------|----------|----|----|
| P. M. | | | 1 | | | | | | | | | 1 | | | |
| 1 | | D. D. M. | Caleu | 0 | | | 30.10 | 68 | 66 | 63 | | J.c. g. | an chiat | 8 | 50 |
| 2 | | Daust | | 0 | | | 30.10 | | | | / | | " | 7 | " |
| 3 | | " | . " | 0 | t+ | | 50.00 | | | | | | - | 8 | |
| 4 | | West | " | 0 | | | 30.00 | | | | | " | ai and | 7 | |
| 5 | | Dm. Ly. D. | Much | 1 | | | 20.00 | 100 | | 1 1 | | " | G'aun | 17 | |
| 6 | | 10. m. | Dim. | / | | | 30.03 | | | | | | " | 17 | |
| 7 | | 20.00.6. | " | 1 | | | 30.08 | | 0 | 10 | | " | " | 8 | " |
| 8 | | Dr. Ley. 2. | M. D. M. | 1 | | 1 | 30.02 | 1 - | | | | | | 8 | |
| 9 | | ,, | balu | 0 | | | 30.06 | - | | | | | Rent Of- | 7 | " |
| 10 | | 76 m. | " | 0 | | | 3006 | 2 . 4 | | | | | * | 8 | - |
| 11 | | m. 52. m. | | 0 | 1 | | 20.00 | | | | | | | 9 | |
| Mid. | | m. Ly 70. | ,, | 0 | 13.5 | | 20.06 | 1 1 1 | | | | | 4 | 9 | - |
| | 1 | / | | | | | | | | | | | | | |

under the command of Caucuaut Et 2.2: Lewell
Medius day Caprie 25th , U. S. Navy, , 1888. Cir Cum. Short med Minches. D'oggy as Logy. Calin. Cool. Cross in Lawse can sud of World From of lutil 8 and / Lusique lo. S. M. Calm. Light ains from M. D. M. Cloudy. Clear at end of Watch. Heimed for brew and usened 1233/4 lbs lack of freal beef the Vegasoli le most lap gallent yand and lan ed sail to a Sombine. Received and manced to Crew 99 lbs of fresh Erias. le vars in Leawer vat ens of watch fant chain von top Fram 8 aux butil Minisian, X ient 26 1. 18. Deverally clear Logy & pleasant. balun & light ains from D. D. E. E. D. E. At, 9th wintered at inspected brew at quartons. Prevatio Bayle as Valpine, 4 s. m.o, absent with aut leave. Dent rewards of so year each to the U.S. Consul far Stey capt relicion as Silivery ou Goard. Exercised for England Devision great guns 3nd pictals. Porder, machine guns, Havigatans, Stations of Manines riples at so. Called away rale Foats wis ex en aid witer aans by signal from the ship. Jus Me boan, Jan of the Dury, returned of name liberty two Learns 2 " light " by ander of the County Officer Was placed ember sentry o charge to valer. M. G. Horre D. A. 12, 42-Fram Meridian until of 1908 Chierage U. S. 8. Denerally Clear Inig Let " Chasaut. Nazy. Claudo Sir Com order af boundg officer de vening sober. Dinled sais van fier, blev haw en at end of watch Thou of lentil 8 PM Lucially Clear Grig Ly & pleasant. Nigg. Light wire from Must to S. M. At Sunsel News Sown lap gallent yand as Sent light vails. le mes in hawse, part chair ou top Wastoggatt race & Por leutil Midnight Generally clear, Long Ly Moonlight. Nagy wo & lear and Light Com & shap Claudo, Calin Lo lear Teacose A Classications Examined and found to be correct. to Galloway Navigotor.

LOG of the United States Dearner Cases 3nd, Rate, Maares in the Lamban of Nobe Japan

| | | | Reading | | WIND. | | | | BAROME | TER. | TEM | PERAT | URE. | State of | Forms of | lear ths. | Sea. |
|-------|--------|---------|----------------------|--------------|-----------------------------------|--------|-------|---------|-------------------|--------------|-------------------|-------------------|---------------------|-----------------------------|------------------------------------|--|--------------|
| Hour. | Knots. | Tenths. | of Patent Log. | Outo & Head | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. att'd. | Air, Dry Bulb. | Air, Wet Bulb. | Waterat Surface. | the Weather, by symbols. | Forms of Clouds, by symbols. | 00000000000000000000000000000000000000 | State of the |
| A. M. | | | | m Ly. 76. | Colu | 0 | | | 30.02 | 66 | 65 | 62 | | f.c. z. | li am | 5 | 0 |
| 2 | | | | m. Ho m | | 0 | | | 30.00 | | | | | ,0 | , " | 2 | " |
| 3 | | | | " | " | 0 | | | 29,98 | | | 23 | | O. c. 3. | Cur Vaint | 0 | " |
| 4 | | | | M. Ly. 76. | JE. 16. €. | 0 | | | 29,96 | 61 | 66 | 64 | | " | " | 0 | |
| 5 | | | | €. 76. E. | " | 1 | | | 79.92 | 64 | 64 | 62 | | | * | 0 | " |
| 6 | | | | " | , | 1 | | | 29.91 | 64 | 62 | 60 | | | " | 0 | " |
| 7 | | | | " | " | 1 | | | 29.90 | | | | | " | " | 0 | " |
| 8 | | | | Cach | | / | | | 29.90 | 65 | 63 | 6/ | | 0.0.3.2. | 4 | 0 | " |
| 9 | | | | V €. 96. VE. | " | / | | | 29.90 | 65 | 63 | 6/ | | 0. A:Y | " | 0 | " |
| 10 | | | | " | " | 2 | | | 29.99 | | | | | " | 11 | 0 | " |
| 11 | | | | , | 1 | 2 | | | 29.98 | 65 | 63 | 61 | | " | ** | 0 | " |
| Noon. | | 1 | an. | " | " | 2 | | | 29.97 | 65 | 68 | 62 | | " | * | 0 | 11 |
| | | | | | | | | | 1 | | | | | | 4 | 1000 | 1 |

| Course and distance | made good since preceding noon by observations | , | knots. | t | enths. |
|---|--|-----------------|------------|-----|----------|
| | Latitude by D. R. | | 0 | , | " |
| | Longitude by D. R. | | • | , | " |
| 'osition at Noon: | Latitude by observations of ⊙ | | 0 | , | " |
| | Longitude by chronometer from Forenoon Ob | servations of ⊙ | • | , | ". |
| | (Latitude by | | • | , | " |
| sition at Noon: sition at 8 a. m. sition at 8 P. M. arrent during the contraction of the | Longitude by | | 0 | , | " |
| | (Latitude by | | 0 | , | " |
| osition at 8 P. M. | Longitude by | | • | , | " |
| Current during the | time, knots tenths per hour, set | ting to the | | | |
| Variation of the Co | mpass by Amplitude o observed at Sunrise, ship | o's head | 0 | , | " |
| Variation of the Co | mpass by Amplitude ⊙ observed at Sunset, | " | 0 | , | " |
| Variation of the Co | mpass by Azimuth ⊙ observed at | " | 0 | , | .11 |
| Variation of the Co | mpass by Azimuth O observed at | " | • | , | " |
| Vater expended du | ring the preceding 24 hours, | | و | 50 | gallons. |
| Vater | during the preceding 24 hours, | | | , | u |
| Vater remaining on | hand fit for use at Noon, | | 7 | 50 | u |
| Coal consumed duri | ng the preceding 24 hours, | | tons | 130 | O lbs. |
| Coal remaining on l | and at Noon | | 100 " | 012 | 0 " |

| P. M. | | | | | | | | | |
|-------|--------------|----------|---|----------|-------|----------|----------|-----|----|
| 1 | D.D. C. | €. 2. €. | 1 | 29.86 66 | 63 62 | o.c. 2. | Com Rink | 0 - | 0 |
| 2 | ." | " | 1 | 29,50.66 | | " | | | |
| 3 | 6. by D. | " | 1 | 29.8366 | | 1" | 4 | 0 | " |
| 4 | D. E. Ly. S. | | 1 | 29,83 66 | | S.e. z. | | 0 | " |
| 5 | 6. Ly. He. | | 7 | 29.8265 | | | | 0 | " |
| 6 | 76. 76. C. | | 7 | 29.8564 | | 8. g. Y. | | 2 | * |
| 7 | V6. 76. VE. | * | 4 | 29.87 61 | | 8.0.3. | di am | 6 | * |
| 8 | 76. 72. √€. | " | 2 | 29.9063 | | 8 0.9 | | 1 | ." |
| 9 | Truck | Mish | 2 | 29.9362 | | des | | 6 | " |
| 10 | South | Calin | 0 | 29.93 62 | | 1 | none | 60 | " |
| 11 | D. Ly. m. | 1 | 1 | 29.9362 | 5953 | | * | | 1 |
| Mid. | D. M. | " | 1 | 29.9062 | | ,, | " | 10 | 4 |

Commander J. D. Jewell., U. S. Navy, Tunsday Japain 26 to, 1888. under the command of RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Commences Es lentie of aux Diair Secreasing to claudy weather Nogy Calm Char haws. From of lentil & aux from S. 96. E. Received for issue in Pay Delles of fresh Sund J. Killer, From Ittimued from liberty light to by order of The Common Of Officers was placed under Dentry's charge to sorber. Crown in hawe was end of wasch fant chain on top From 8 aux until Meridian Custon & 1. 18. rain. Light greeze fram E. M. E. Thick weather. Started fire in bailers & Est Jesus Menidian Centil of Por Curing 16. J. 78.

Overcash Clayby and rainey. Light vains from Ed. 6.

Lutil last Land, When S. D. M. Sh 245 began Sistilling. Chear Lawer end of Wahad Je ram flutel & Post Curique it 1.8

Benerally Clausey, aver cust Line & last Laure
Weather very unsetted. Minty & Loggy. Buye light & Variable. Put on york. Mark & last of wat al. Dietilling Dansk lack lialet. Beeined U. S. Mail Me Saant Dietilling brown house Chingge US. 98. Light ains from Enigh the S. To Examined and found to be correct. Top Galloway

| Reading of Patent Log Direction by Standard Stand | | | | | | | | | | | _ | _ | _ | | _ | | |
|--|-------|--------|---------|-----------------|----------|--------|-------|-------|----------------------|--------------|------------------|----------------|-------|--------------|------------------------|--------------------|----------|
| A.M. 1 | | | | COURSES STEERED | WIND. | | | , | | | | | | | Forms of Clouds, by | f Clear 10ths. | the Sea. |
| 1 M. M. Dautt / 29.95 64 55 52 & g. Reve 10 D 2 Minh " / 29.96 61 5451 " " 10 " 3 M. H. M. " / 29.96 61 5451 " " 10 " 4 M. E. Ly R. Oalu 0 29.9460 5250 & e. y. Lineth 9 " 6 D. E. Ly E. Variable / 29.9759 5457 " " 8 " 8 SE. M. E. " / 29.9759 56 53 & g. | Hour. | Knote. | Tenths. | 0 0 1 | | Force. | Heel. | Leewn | Height in inches. | Ther. att'd. | Air, Dr Bulb. | Air, W. Bailb. | Water | by symbols. | | Prop. o Sky, in | State of |
| 2 Mish " 1 29.96 61 00 02 " " 10 " 3 Mr. 76. M. " 1 29.96 60 03 00 " " 10 " 4 M. E. Ly 76. " 1 29.96 60 03 00 L. C. Y. Circh 9 " 6 Ley D. Calcul 0 29.9460 0300 L. C. Y. Circh 9 " 7 D. E. Ly . E. Variable 1 29.9459 0407 " " 8 " 8 LE. M. E. " 1 29.9459 56 03 " 8 " 9 D. E. D. E. 1 30.0060 03 5. c. g " 8 " 10 D. D. M. " 1 30.0060 059 04 " " 8 " | A. M. | | | | | , | | 12.0 | | | | | | .1 | -6 | | |
| 2 Misah " 1 29.96 61 05 02 " " 10 " 3 Mis M. M. " 1 29.96 61 54 51 " " 10 " 4 M. E. Ly M. " 1 29.94 60 03 00 L. C. J. Circh 9 " 5 E. Ly D. Calcul 0 29.94 60 03 07 " " 8 " 7 D. E. Ly E. Variable 1 29.97 59 54 07 " 8 " 8 J. E. M. E. " 1 29.97 59 56 53 " 8 " 9 D. E. D. E. 1 30.00 60 57 54 " " 8 " 10 D. D. M. " 1 30.00 60 57 54 " " 8 " | 1 | | | 16. M. | Haut | / | | | 29.95 | 61 | 55 | 02 | | J. 3. | Marie | 10. | B |
| 10 D. E. Ly E. 10 10 D. D. M. 10 10 D. E. Ly E. 10 10 D. D. M. 10 10 D. E. Ly E. 10 10 D. D. M. 10 10 D. E. Ly E. 10 10 D. E. Ly E. 10 10 10 D. E. Ly E. 10 10 10 D. E. Ly E. 10 10 D. E. 10 D. E | 2 | | | | 2 " | / | | in: | 29.96 | 61 | 00 | 02 | | " | " | 10 | " |
| 5 6. Ly. D. Scalue 0 29.9460 5250 J. C. Y. Circh 9 " 6 " 9. 19.9759 5457 " 8 " 8 E. H. E. " 1 29.9759 56 53 J. c. g " 8 " 9 D. E. D. E. 1 30.0060 5754 " " 8 " 10 D. E. Ly E. 1 30.0060 5754 " " 8 " | 3 | | | m. 76. m. | " | 1 | | | | | | | | " | " | 10 | " |
| 5 | 4 | | | n. E. Ly 76. | 0" | / | | | 29.96 | 60 | 03 | 50 | | 1, | , | 10 | + |
| 7 | 5 | | | - 111 - | Calu | 0 | | | | | | | | L. C. X. | Circh | 9 | 4 |
| 8 | 6 | | | " 1 | , , | 0 | | | 29.95 | 09 | 53 | 57 | | 1" | " | 8 | " |
| 9 D. E. D. E. / 30.0059 06 03 8.0.9 4 8 " 10 D. D. M. " / 30.0060 57 54 " 8 " 11 D. E. Ly E. ' 30.0060 57 54 " " 8 " | 7 | | | D. E. Ey. E. | Variable | / | | | | | | | | ,, | 1 | 8 | " |
| 10 D. B. M. " 30.0060 5754 " " 8 " 11 D. E. Ly E 30.0060 5454 " " 8 " | 8 | | | JE. 76. JE. | " | / | | | 29.97 | 59 | 56 | 53 | | 1" | " | 8 | 4 |
| 11 D. E. Ly E / 30.0060 54 54 " " 8" | 9 | | | D. E. | 2.16. | / | | | | | | | | J. e. 91 | 14 | 8 | " |
| | 10 | | | D. D. M. | " | / | | | | | | | | " | , | 8 | , |
| Noon. Dey m. " 1 30,0060 59 54 " " 8" | 11 | | | | | 1 | | | | | | | | " | " | 8 | " |
| | Noon. | | | Day m | | 1 | | | 30.00 | 60 | 58 | 54 | | " | " | 8 | " |
| | | | | / | | | | | | | | | | les services | | | |

| Course and distance | made good since preceding noon by observation | 18, | knots. | tenths. |
|---------------------|---|------------------|-----------|-----------|
| | (Latitude by D. R. | | 0 , | " |
| | Longitude by D. R. | | . , | " |
| Position at Noon: | Latitude by observations of ⊙ | | 0 , | " |
| | Longitude by chronometer from Forenoon O | bservations of ⊙ | . , | " |
| | (Latitude by | | 0 , | " |
| Position at 8 a. m. | Longitude by | | 0 / | " |
| | (Latitude by | | 0 , | " |
| Position at 8 P. M. | Longitude by | | 0 / | " |
| Current during the | time, knots tenths per hour, s | etting to the | | |
| Variation of the Co | ompass by Amplitude ⊙ observed at Sunrise, sh | ip's head | 0 / | " |
| Variation of the Co | ompass by Amplitude ⊙ observed at Sunset, | " | 0 / | " |
| Variation of the Co | ompass by Azimuth © observed at | " | 0 / | " |
| Variation of the Co | ompass by Azimuth O observed at | " | 0 / | " |
| Water expended du | ring the preceding 24 hours, | | 30 | Ogallons. |
| Water Ois | Lilly during the preceding 24 hours, | | Las | co " |
| Water remaining or | n hand fit for use at Noon, | | 2,5° a | 0 " |
| Coal consumed duri | ing the preceding 24 hours, | | 2 tons 3 | 30 lbs. |
| Coal remaining on | hand at Noon, | | 2 tons 3. | 800 " |
| | | | 11 | |

| P.M. | | | | | , | | | |
|--|--------------|----------|----|----------------|---------|--|----|----|
| 1 | D. D. M. | D. D. M. | 1 | 29.97616056 | S.c. 3. | Lis Can & | 7. | 13 |
| 2 | D. M. Ly. M. | | / | 29.96 62 60 57 | | " | 14 | |
| 3 | D'Ey. M | | / | 29.9562626308 | | * | 6 | - |
| 4 | D.D. E. | " | / | 29.90436439 | 4 . | | 6 | " |
| 5 | M Ey D. | M.D.M. | / | 29.95 26 65 | | * | 6 | " |
| 6 | 0. m. | | / | 29.9665 6661 | " | " | 6 | " |
| 7 | D.D. M. | " | / | 29.96606061 | , . | " | 8 | " |
| 8 | Q. M. | ," | 1 | 29.96646461 | 4.3. | None | 10 | " |
| 9 | Dm by m. | balu | 0 | 29.95636360 | " | | 10 | ~ |
| 10 | Week | " | .0 | 29.90636260 | | | 10 | " |
| 11 | M. H. 101. | " | 0 | 29.96 63 62 60 | 4 | " | | |
| Mid. | 16. M. | " | 0 | 29.906261 59 | 4 | | | |
| STATE OF THE STATE | | | | 1 | | ESTATE OF THE PARTY OF THE PART | | |

Commander J. J. Lewell Vriday april 2 1th , U. S. Navy, under the command of , 18/ RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Down en en as Entilling Sonight houndight, Light ains from cs Decurry Frame of hutil & acid Xieux U. J. M. Generally Clear, Loggy around Larigen. Light and stake Plando. Loval finst part. Calm fined part, light Variable ains rafterwand Liberty party returned. Received and issued to lrew 124 lbs of fresh beef and Vegatable rach " 95 the of fresh turad. Connect light yands Es loaned sair to a Forhine out 745. Toler how se wat end of Watch. Dustilling. From & aux autil, Meridian Clear and pleas and. Nazy aver land, Light aino from D.E. At 933 Went to fine quanters, vall discours reported really in 55 Decourse Exercised Let Ind and Ind Dever vak great guns a Patroles Die at Alation Fired are Iguiter from Startond boom. By and en af The Camenauding Officier. placed I standard, I.e. F., wi lill for five day's von Great and Water for obusing saw disrespect ful language to offices of Leek Ed Pentry, brown in house reportion race Meridian Centil of Por 250 Abortened and furled Rail and Them exercised at Making Rail and reefing lapsails. Dent dawn royal yard. Es unbent rayals af flying fib. braw in Laws Sharbard chain on lap. ca Lient Co. 1. 8. Fram of hutil & Poss Clear, Es pleasant. Nazy aver land, Light ain from Much and M. D. M. At 500 stables Sistelling and randed fine in 6 and 8. Goilers. Crans in Lawse sharbord Chain on top 57. Curiguell 178. From & Post Jutil Midwight Clear to Sleas auch. Bright Moon light. blear hawse Examined and found to be correct. Les alloway El Navigator.

| | 01 | the | UNIT | TED STATES | | | | | | 1 | , | ,, | , | 3rl | 5 | Ra | ate |
|-------|------|------|-------------------|--------------------------------------|------------------------------|--------|-------|------|--------------------------|--------|------------|------------|-----|-----------------------------------|------------------------------|----------------------------------|-------------------|
| | - | hs. | Reading of Patent | COURSES STEERED by Standard Compass. | WIND. Direction by Standard | | | Sas. | BAROME Height in inches. | TER. | TEME | PERAT | 0 | State of the Weather, by symbols. | Forms of Clouds, by symbols. | Prop. of Clear Sky, in 10ths. | State of the Sea. |
| Hour. | Knot | Tent | Log. | Diejs Head | Compass. | Force. | Heel. | Lee | in inches. | att'd. | Air, Bu | Air, Bu | Wat | | | Prop Sky, | State |
| . M. | | | | 76. M. | No. 56 | 1 | | | 25,95 | 60 | 60 | 07 | | 8.0.9. | lir Cenu | 7 | Se |
| 2 | | | | Mont | " | 1 | | | 29.93 | | | 1/ | | .0 | 1 | 14 | " |
| 3 | | | | 76: M. | 30 | 1 | | | 29.93 | | | | | . 0 | | 7 | 11 |
| 4 | | | | Carl, | " | 1 | | | 29.92 | 60 | 09 | 56 | | " | | 5 | " |
| 5 | | | | No. E. Ly E. | | / | | | 39.93 | - | | | | 4 | , | 6 | , |
| 6 | | | | 76. 6. | " | 1 | | | 29.92 | 60 | 09 | 56 | | " | | 6 | 4 |
| 7 | | 66 | | No 16. Ley 6. | " | / | | | 29.93 | | | | | 1 | " | 5 | |
| 8 | | | | €.76. E. | " | 1 | | | 29.93 | 62 | 61 | 5-9 | | J. C. | Hone | 10 | " |
| 9 | | | | Each . | lack | 1 | | | 29.93 | 63 | 62 | 59 | | 8.09. | gir aun | 7 | |
| 10 | | | | 606. | " | / | | | 29.92 | | | | | ,0 | | 16 | 1 |
| 11 | | | | Dauth | M. A. M. | 1 | | | 39.92 | 66 | 66 | 60 | | | | 6 | 1 |
| loon. | | | | D.D. 17. | , | 2 | | | 29.91 | | | | | | Lei Cume | 01 | - |

| Course and distance | made good since preceding noon by observations, | knots. tenths. |
|---------------------|--|-----------------|
| | (Latitude by D. R. | . , " |
| | Longitude by D. R. | 0 / " |
| Position at Noon: | Latitude by observations of ⊙ | 0 , " |
| | Longitude by chronometer from Forenoon Observations of ⊙ | · / // |
| | (Latitude by | 0 , " |
| Position at 8 a. m. | (Longitude by | , o r " |
| | (Latitude by | 0 , " |
| Position at 8 P. M. | Longitude by | 0 , " |
| Current during the | time, knots tenths per hour, setting to the | |
| Variation of the Co | mpass by Amplitude ⊙ observed at Sunrise, ship's head | 0 , " |
| Variation of the Co | mpass by Amplitude ⊙ observed at Sunset, " | 0 , " |
| Variation of the Co | mpass by Azimuth ⊙ observed at " | . , , |
| Variation of the Co | mpass by Azimuth o observed at | 0 , " |
| Water expended dur | ring the preceding 24 hours, | 3,6 Ogallons. |
| Water | during the preceding 24 hours, | " |
| Water remaining on | hand fit for use at Noon, | 2,/90 " |
| Coal consumed duri | ng the preceding 24 hours, | tons //2 0 lbs. |
| Coal remaining on h | and at Noon, | 109 " 680 " |
| | | |

| P. M. | 1 | . 3.41 | | | 0 | | | |
|-------|--------------|-------------|---|----------------|---|------------|---|----|
| 1 | D. M. Ly M. | 2. m. | 2 | 29.59 67 69 64 | J. c. 2. | & Cen | 2 | 20 |
| 2 | D. M. Ey. D. | - :: | 2 | 29.8668 69 64 | г.с. д. | | 3 | 1 |
| 3 | 2. m. | " | 2 | 29.86696964 | | - | 2 | * |
| 4 | Dants | m. s. m. | 2 | 29.86686965 | | | 1 | 1 |
| 5 | M. Ly 18. | | / | 29.89 69 64 64 | 0.0.3. | Cir Cesser | 0 | 1 |
| 6 | /4 | m. Ley. 18. | / | 29.846966664 | o.e. 6.3 | " | 0 | 1 |
| 7 | Wish. | Willy" | / | 29.88 69 61 65 | 0, e. g. | ame huit | 0 | , |
| 8 | " | " | 2 | 29.85 69 61 65 | " | | 0 | 4 |
| 9 | D. M. | , | 2 | 2984686764 | " | " | U | 1 |
| 10 | m. Ly D. | 1" | / | 29.8468 3464 | o.e. 7:3. | " | 0 | 11 |
| 11 | W. D. W. | balu , | 0 | 29.86686664 | " | | 0 | 15 |
| Mid. | 76. Ey. E. | Banto | / | 29.8368 65 63 | " | | 0 | 11 |
| | | | | | 100000000000000000000000000000000000000 | 10000 | | - |

Cammander J. J. Jewell. Dahurday Sapril 28 15 under the command of , U. S. Navy, , 1888 . RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Nozy. Round live in hawre. Jesam of leutil 8 all Cine gut il. I. Is have. Received in Pay Deft fan insue to leun 12 3 3/4 lles each of firech buf I Vegetables at gelles of fresh inead. Clear hawie at end of watch Cuergle lb. J. B. From & ales butil Meridian Cusiquell S. J. Fair and Waren. Light ains Junou ling fines half af Watch, light ains to light weege from M. o. m. last half. Nazy anound Entaly horizen. Mr 845 ained Gedding 45 last 10 to beford down 45 slung Clean hammon brass in how se at end of Watch shandown chain von top From D. M. By ander of The Commanding officer, Nowed M. 20 Porien from Naufinement, his term hading expired. Crais in hause, who chain outably Miston agath 18 General Edward Claudy. Light airs fram Mins and m. Ly. 18. CA . Lechnin and light rain from West and Benth. Clear Lawre mant for balow M3/ Toggath Examined and found to be correct. Exgalloway Elavigator.

| LOG | of | th | e Uni | TED STATES - | ed in s | 信人 | La | 201 | er M | X | 1 | t | Se | 3nd | Sau | R | ate, |
|-------|--------|---------|------------------------|--------------------------------------|---------------------------------------|--------|-------|---------|--------------------------------|----|----|----------------|------------------|---|------------------------------------|----------------------------------|-------------------|
| Honr. | Knots. | Tenths. | Reading of Patent Log. | COURSES STEERED by Standard Compass. | WIND. Direction by Standard Compass. | Force. | Heel. | Leeway. | BAROME Height in inches. | - | | Air, Wet Bulb. | Waterat Surface. | State of the Weather, by symbols. | Forms of Clouds, by symbols. | Prop. of Clear Sky, in 10ths. | State of the Sea. |
| A. M. | | | | no le Ley le | 76. E. | 2 | | | 29.80 | 69 | 66 | 63 | | o.e.n. | Print | 0 | 0 |
| 2 | | | | 6 n. E. | no. Lo. Ley L | 2 | | | 29.78 | 67 | 26 | 64 | | " | | 0 | " |
| 3 | | | | No. E. Ley . E. | " /. | 2 | | | 29.77 | 67 | 65 | 64 | - | " | 4 | 0 | " |
| 4 | | | | 16.6! | " | 2 | | | 29.77 | 67 | 65 | 63 | | 0.0.11 | | 0 | " |
| 5 | | | | €. n. €. | €. 16. €. | 2 | | | 29.75 | 64 | 65 | 63 | | 9, 2, 6,7, | " | 0 | " |
| 6 | | | | ,, | " | 2 | | | 29.74 | 66 | 64 | 62 | | acr | * | 0 | " |
| 7 | | | | " | " | 2-3 | | | 19.73 | 26 | 64 | 62 | | " | , | 0 | |
| 8 | | | | " | " | 2 | | | 29.73 | | | | | | " | 0 | 4 |
| 9 | | | | " | " | 2 | | | 29.72 | 66 | 63 | 62 | | | " | 0 | 9 |
| 10 | | | | " | " | 2 | | | 29.71 | 66 | 63 | 62 | | | • | 0 | " |
| 11 | | | | 16. 6. Ley &. | " | 2 | | | 29.41 | 66 | 63 | 62 | 1 | , | " | 0 | |
| Noon. | | | | E. 76. 6. | " | 2 | | | 29.71 | 66 | 63 | 62 | | " | fa . | 0 | 7 |

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|---------------------|---|----------|--|--------|----------|--|
| Course and distance | made good since preceding noon by observations, | | knots. | ter | nths. | |
| | Latitude by D. R. | | . 0 | , | " | |
| | Longitude by D. R. | | 0 | , | " | |
| Position at Noon: | Latitude by observations of ⊙ | | 0 / | , | " | |
| | Longitude by chronometer from Forenoon Observation | ons of ⊙ | 0 | , | 11 | |
| | (Latitude by | | 0 | , | 77 7 | |
| Position at 8 a. m. | Longitude by | | • | , | ,, | |
| | (Latitude by | | 0 | , | " | |
| Position at 8 P. M. | Latitude by Longitude by | | • | , | " | |
| Current during the | time, knots tenths per hour, setting to | the | | | | |
| Variation of the Co | mpass by Amplitude ⊙ observed at Sunrise, ship's head | | 0 | , | " | |
| Variation of the Co | mpass by Amplitude ⊙ observed at Sunset, " | | 0 | , | " | |
| Variation of the Co | mpass by Azimuth ⊙ observed at " | | • | , | " | |
| Variation of the Co | mpass by Azimuth ⊙ observed at " | | 0 | , | " | |
| Water expended du | ring the preceding 24 hours, | | | 350 | gallons. | |
| Water | during the preceding 24 hours, | | | | " | |
| Water remaining on | hand fit for use at Noon, | | 6.0 | gae | 7 " | |
| Coal consumed duri | ng the preceding 24 hours, | | to | ns 40. | o lbs. | |
| Coal remaining on l | nand at Noon, | | 107 to | 28 | 0 " | |
| | 100 | | - / | | | |

| P. M. | | | | 1 | 1 4 | | | | | |
|-------|------------|----------------|---|----------|-----|----|------------|-------|------|----|
| 1- | n. E. | 16 . E. by. 7. | / | 29.72 66 | 65 | 62 | 0.c. f. | Camil | 0 | 0 |
| 2 | Miss | Calue | 0 | 29.73 66 | | | 0.0. %. | " | . Ot | 1. |
| 3 | m. s. m. | D. M. Ly. D. | / | 29.7466 | 64 | 62 | " | | 0 | |
| 4 | m Ley. 48. | " | / | 29.7466 | 64 | 63 | o.e. 3. | " | 0 | |
| 5 | m. 16. m. | n. n. €. | / | 29.7466 | 64 | 63 | 0.0.4. | 10 | 0 | " |
| 6 | €. 2, €. | , | / | 29.7466 | 63 | 62 | | | 0 | |
| 7 | n. by E. | " " " | 1 | 29.7466 | 63 | 62 | o.e. S. x. | " | 0 | |
| 8 | 76. 76. 6. | | 1 | 29.7666 | 64. | 63 | " | | 0 | * |
| 9 | D.M. | D.m. | 1 | 29.7966 | | | " | " | 0 | 1 |
| 10 | E. E. | Calu | 1 | 29.8/66 | | | c.e.d. | , , | U | - |
| 11 | R. E. 20. | m. 98 m. | 1 | 29.81 66 | | | , | " | 0 | 1 |
| Mid. | m. D. m. | Sheet | 1 | 19.8260 | 1 | | " | " | 0 | |
| | | , | | | | | | | | |

Ormunants d. J. Swell, under the command of , U. S. Navy, Sunday Capril 29th , 1888 . RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Downer With lime & nind. Claude Rawing withs watch, Jery wavey rain last hour with lightning hight wreeze from 76.6. & 76.6. by & bless how a Manualow Fram of until 8 and A. E. Wansen. C. A. G. Tekurus & fram Alberty muser the influence of legues.
Clased Line muder dent ryo Change. Clear Leave Curique U. J. 70 at Deliver Fram & all with Meridian Light ains X rent U. J. A Ed Treeze from En & Clear Leaurse. Fram Meridian butil of PM Pure 18 16 18 Light ains from M. E. finst Lines. Calm 2 us Law, light ains from som Ly so. latter fast. Occasional Churcing appearences but Laur. Nels Dulin Service at 300 Fram 4 leutil 8 (908) Chusig will. J. D. Overcant and Joggy with light origing rain Light ains fram 6. 18. E. By arter of the Cannot of Officer, released N. E. Hausen 6. A. I fram Denties harge in Seining water Clear hause Fram. 8. Post levetil Midinglik Church Stringlik Chands Dringling of Sund Clauds Dringling and af Ward Clauds Dringling and af Ward Clauds Dringling and af Ward Clauds and Sund Clauds and Company of the Samuel Clauds Dringling and af Ward Clauds and Sund Clauds and Company of the Sund Clauds Dringling and Sund Clauds Dringling a Alfamatone. Kungle lb. d. X. Examined and found to be correct. Longalloway & North

| | | | | | | | | | | _ | _ | _ | - | | | | STATE OF THE PARTY NAMED IN |
|-------|--------|---------|----------------------|-------------------------------------|-----------------------------------|--------|-------|---------|-------------------|--------------|-------------------|--------------------|---------------------|-----------------------------|---------------------|--------------------------|-----------------------------|
| | | | Reading | | WIND. | | | | BAROME | TER. | TEMI | PERAT | TURE. | State of | Forms of | Tear ths. | e Sea. |
| Hour. | Knots. | Tenths. | of Patent Log. | Ourses STEERED by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. att'd. | Air, Dry Bulb. | Air, Wet Bailb. | Waterat Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of C Sky, in 10 | State of the |
| A. M. | | | | 1 | | | | | | | | | | | 0 | | |
| 1 | | | | Much | Much | 1 | | | 29.83 | 65 | 62 | 61 | 138 | 0, c. x. | minh | 0 | 0 |
| 2 | | | | m. 76. m. | Calu | 0 | 336 | | 29.83 | | | | | " | - | 0 | " |
| 3 | | | | " | " " | 0 | | | 29.83 | | | | | " | | 0 | M; |
| 4 | | | | 76. M. | " | 0 | | | 29.85 | | | | | " | | 0 | * |
| 5 | | | | m. Ley. 76. | " | 0 | | | 29-85 | 64 | 61 | 60 | 100 | 0.0. | 7 | 0 | , |
| 6 | | | | 2 1. 6. | " | 0 | | | 29.85 | 64 | 61 | 60 | | " | | 0 | " |
| 7 | | | | A D. M. | D. M. | 1 | | | 29.86 | 64 | 65 | 58 | | " | | 0 | ^ |
| 8 | | | | D. M. Ly. D. | D.M. Ly D. | 1 | | | 29.87 | 63 | 60 | 58 | | " | " | 0 | |
| 9 | | | | 2. Ly. M. | Dant | 2 | | | 29.90 | 63 | 69 | 38 | | acz. | " | 0 | " |
| 10 | | | | Q.m. | " 3 | 2 | | | 29.91 | 64 | 61 | 28 | | 0" | " | 0 | " |
| 11 | 1 | | | D. M. Ly D. | D. D. m. | 2 | | | 29.91 | 65 | 63 | 60 | | J. C. G. | Cir anu | 3 | " |
| Noon. | | | | South | " | 2 | | | 29.41 | 65 | 63 | 60 | | " | " | 1 | 4 |

| (1 | | | | |
|-------------------------|---|---------|-----------|-----|
| 1 | atitude by D. R. | • | , ,, | |
| | longitude by D. R. | • | , " | |
| Position at Noon: I | atitude by observations of ⊙ | • | , ,, | |
| I | ongitude by chronometer from Forenoon Observations of ⊙ | 0 | , " | |
| | atitude by | 0 | , " | |
| Position at 8 a. m. { L | ongitude by | • | , " | |
| (L | atitude by | o | , . ,, | |
| Position at 8 P. M. | ongitude by | • | , " | |
| Current during the time | e, knots tenths per hour, setting to the | | | |
| Variation of the Compa | ass by Amplitude ⊙ observed at Sunrise, ship's head | • | , " | |
| Variation of the Compa | ass by Amplitude ⊙ observed at Sunset, " | • | , ,, | |
| Variation of the Compa | ass by Azimuth ⊙ observed at " | ۰ | , " | |
| Variation of the Compa | ass by Azimuth ⊙ observed at " | • | , ,, | |
| Water expended during | the preceding 24 hours, | 3 | JO gallor | is. |
| Water | during the preceding 24 hours, | | " | |
| Water remaining on ha | nd fit for use at Noon, | 1.4. | 50 " | |
| Coal consumed during t | the preceding 24 hours, | 14 tons | 400 lb | s. |
| Coal remaining on hand | l at Noon, | 106 " | 2120 | |

| P. M. | | | | | 1 | | | |
|-------|-------------|----------|---|----------------|----------|--------------------------|------|----|
| 1 | D. C. | D. D. M. | 1 | 24.92 65 62 60 | 2, e. g. | + mint | 1 1 | 2 |
| 2 | South | " | / | 29.9266 63 61 | " | Cir | 4 | , |
| 3 | " | South | 2 | 24.9166 6461 | " | Cir Cum sti + ninh | 11 | - |
| 4 | №. №. €. | | 2 | 29.91 66 64 09 | | " | | |
| 5 | no. Les m. | M. M. C. | 2 | 2992666560 | " . | " | | |
| 6 | Month | l'alm | 2 | 24.93655439 | " | " | 4 " | - |
| 7 | ", | Calm | 0 | 299465 53 59 | " | | 1 | * |
| . 8 | 16. by 6. | " | 0 | 39.9665-61 58 | 1" | naue | | |
| 9 | n. 16. | " | 0 | 29.4765 6157 | 4.3. | 11 | 10 3 | * |
| 10 | 76. m Ly 18 | . 76°E. | / | 24.97 64 60 36 | ~ | " | 10 | / |
| 11 | " / | Calen | 0 | 29.496460 56 | , | " | | |
| Mid. | no. m by no | " | 0 | 29.97645956 | , | " | 10 | 11 |
| | | | | | | | | |

under the command of Cammand El J. D! Lewill , U. S. No. , U. S. Navy, RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Cammences & hutil if all Weet finet Law. Calm remainder of watch. Clear Lawre Frame of hutil & allo Cuergly. U. S. 78.

Overcant Calin and Light aims frame S. m. and sm. Sys. Recurd for inne in Pay Dept for issue to them 123 H les each of freel berg and Vegatobles as 99 lbs of fresh Great bread to row in hawse. Fort chain on top Fram & allo Centil Meridean Curiquell S. & Tenally Claudy With ai Com & lumb Claudo, Guer last Ist gant. May, high teresge from South to D. D. M. At 9 9 Cleared ship for raction, vall ready in 15 luino Ed 30 sees. After which went to general quantons, all ready 1th 00 2. At 10 20 Secured, End laased sail to a Law line at 10 40, Chammed Magigene as shill-room flows Cars as dry gun atton formers also electrica batteries and Councer ions as faund vall of them in good landition. Is rose in how Received 16 of and of fiere wood Soll amilitarie Fram Meridian with A PM Cusiple U. S. & D. D. M. Lines half the light trenge from sant suntil last hand when light Variable tirecges. Believed in Eguph Dept remainder of aux, (1) Cons of Wood Extrait signed Class. At 32 Jured sail. Paraking reams of hammack-Fram of Curtil 8 1008 Generally Clausy Nizy Claudo Cim. Att. 4 Binh Julius yards Ed Unast's at sun sex and unbend lap galeun Rails, Char Law se I raw & JM butil Mesingles (Surregue lb J. 1) clear to pleasant, lingth sharlight dig ich ains from n. E. Line Lag, View Calu Examined and found to be correct.

| | | | Reading | | WIND. | | | | BAROME | ETER. | TEMI | PERAT | URE. | State of | Forms of | lear ths. | e Sea. |
|-------|--------|---------|----------------------|----------------------|-----------------------------------|--------|-------|---------|-------------------|--------------|-------------------|-------------------|----------------------|-----------------------------|---------------------|--------------------------------|--------------|
| Hour. | Knots. | Tenths. | of Patent Log. | by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. att'd. | Air, Dry Bulb. | Air, Wet Bulb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Clea Sky, in 10ths | State of the |
| A. M. | | | | No. m. Ly. n | Caleu | 0 | | | 29.99 | 64 | 60 | 57 | | o. c. 2 | Cum rivel | 0 | 2 |
| 2 | | | | 76. C. Ley. 16 | ,, | 0 | | | 29.98 | 1 | | / | | L. c. 3. | , | 2 | " |
| 3 | | | | D. D. m. | " | 0 | | | 29.98 | 64 | 59 | 56 | | " | Cican | 5 | " |
| 4 | | | | No m. | n. C. | 1 | | | 29.98 | 63 | 08 | 50 | | ,, | " | 7 | " |
| 5 | | | | mech | 16. m. | / | | | 29.99 | 63 | 56 | 54 | | " | ann street | 8 | , |
| 6 | | | | m. s. m. | "0 | / | | | 30.00 | 63 | 56 | 54 | | ," | , | 9 | 1) |
| 7 | | | | A.M. | D. Ley. M. | / | | | 30.04 | 61 | 2.8 | 56 | | 2. 3. | None | 10 | " |
| 8 | | | | D. C. Ley. D. | , . | / | | | 30.02 | 63 | 60 | 56 | | ,, | , | 10 | " |
| , 9 | | | | " | Calen | 0 | | | 30,02 | 64 | 6/ | 57 | | 8.3.c. | Cianu | 7 | " |
| 10 | | | | D. C. | " | 0 | | | 30.01 | 65 | 63 | 18 | | | 4 | 8 | " |
| 11 | | | | " 1 | A. A. M. | 1 | | | 30,00 | 66 | 64 | 60 | | , | " | 8 | 1) |
| Noon. | | | | A. C. Ey. E. | " | 1 | | | 29.99 | 60 | 63 | 58 | | " | " | 8 | 2 |

| ourse and distance | made good since preceding noon by observations, | | knots. | tenths. |
|--------------------|---|-------------|----------------|------------|
| | Latitude by D. R. | | 0 , | " |
| | Longitude by D. R. | | 0 , | " |
| osition at Noon: | Latitude by observations of ⊙ | | 0 , | " |
| | Longitude by chronometer from Forenoon Observa | ations of ⊙ | 0 , | " |
| *** | (Latitude by | | 0 , | " |
| osition at 8 a. m. | Longitude by | | 0 , | " |
| ic as D W | (Latitude by | | 0 , | " |
| osition at 8 P. M. | Longitude by | | 0 , | " |
| urrent during the | time, knots tenths per hour, setting | to the | | |
| ariation of the Co | mpass by Amplitude 🕤 observed at Sunrise, ship's he | ad | 0 , | . " |
| ariation of the Co | mpass by Amplitude ⊙ observed at Sunset, " | | 0 , | " |
| ariation of the Co | mpass by Azimuth ⊙ observed at " | | 0 , | " |
| ariation of the Co | mpass by Azimuth ⊙ observed at " | | 0 / | " |
| Vater expended dur | ring the preceding 24 hours, | | 35 | O gallons. |
| Vater | during the preceding 24 hours, | | , | u |
| Vater remaining on | hand fit for use at Noon, | | 1.45 | 0 " - |
| oal consumed duri | ng the preceding 24 hours, | | 1.45 tons 4 | loo lbs. |
| oal remaining on h | and at Noon, | 1 | 16 "17 | 20 " |

| P. M. | | 0 | | | 1 | | | |
|-------|-------------|---------|---|----------------|-----------|----------|---|---|
| 1 | Dm. Ly D. | Calen | 0 | 29.96 66 54 59 | 6.0.3. | aiann | 4 | 0 |
| 2 | , | D.M. | 1 | 29.93 64 65 60 | 0.0.3. | 4 | 0 | " |
| 3 | A. m. Ly M. | | 1 | 29.91676561 | " | " | 0 | |
| 4 | D.M | | 2 | 29.9066 6460 | u | " | 0 | - |
| 5 | | D. 108. | 2 | 29,40 66 60 60 | | 1. | 0 | " |
| 6 | | " | / | 29.92 67 65 62 | o.e. 3.l. | Que eli | 0 | " |
| 7 | Dauth | " | / | 29.90 67 65 62 | 0.0.3. | " | 0 | " |
| 8 | 2. E. | " | / | 29.916760.61 | o.e. z. | " | 0 | 1 |
| 9 | Each | Calen | 0 | 29.91 69 65 62 | 0.0. 4 | Cum Rich | 0 | " |
| 10 | 16.76: Nr. | no. m. | / | 29.9/67 65 62 | 4 | " | 0 | " |
| 11 | Dr. Ly. 18 | Calm | 0 | 29.90 67 65 63 | " | " | 0 | ~ |
| Mid. | ment | " | 0 | 2989 67 65 63 | 0.0, | " . | 0 | " |
| |) | | | | | | | - |

Danuant, El J. J. Eurell Junday May Just under the command of , U. S. Navy, , 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. balen & light ains from 16 6. Bugle & pleasant. Light ains from Bor to Dom. Received & inch So Crew sooks of freel Great Sures of form Soile Street Sures of the Sant Hogy of freel Great Super Super Sures of Sures Sures At Tourston. Miles Tracione Fram & all with Mention Ensign lb. S. A. Selin Line Land, South ains from S. S. m. land Last. The Frank D. A. I c, repenhed his term of Reliebucut expired. At 930 landed Fattalian for Svill an share, at 11.10 Battalian returned on Foart. Long in Leawer fart Leain on top Fram Meridian leutil of PM Curique U. S. D. Overcash claudy & hogy. balon & higher aims & rom south cs. F. Dechtilus Frame of lentil 8 PM Liege Leave Claudy End Liegy, Light Garving shower of Fain Sown hip gallens yours. Grans in Leaver fant Chair an top Hracus PM butil Mideinght Eurique 16. S. 78
Overcast Wood clausey balin as begin ain from no. m. (ieux 6. S. 28 Examined and found to be correct. CA Gallo Lay E Navigator.

| | | | the same of the sa | | | - | - | - | | | - | - | _ | - Annual Contraction of the last of the la | | _ | |
|-------|--------|---------|--|----------------------|-----------------------------------|--------|-------|---------|-------------------|--------------|-------------------|-------------------|----------------------|--|------------------------------------|--------------------------------|----------------|
| | | | Reading | | WIND. | | | | BAROME | ETER. | TEM | PERAT | URE. | State of | Vorme of | lear ths. | Sea. |
| Hour. | Knots. | Tenths. | of Patent Log. | by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. att'd. | Air, Dry Bulb. | Air, Wet Bulb. | Water at Surface. | the Weather, by symbols. | Forms of Clouds, by symbols. | Prop. of Clea Sky, in 10ths | State of the S |
| A. M. | | | | m. n. m. | Calu | 0 | | | 29,89 | 66 | 64 | 61 | | o.c. } | anul | 0 | 0 |
| 2 | | | | " | " | 0 | | | 29.88 | 66 | 64 | 63 | | 0.0. | " | 0 | " |
| 3 | | | | * 1 | " | 0 | | | 29.87 | 66 | 64 | 62 | | ,, | | 0 | " |
| 4 | | | | M. Ly. 76. | " | 0 | | | 29.87 | 66 | 63 | 61 | | " | " | 0 | " |
| 5 | | | | " | " | 0 | | | 29.86 | 67 | 63 | 62 | | 0.0 %. | " | 0 | " |
| 6 | | | | Much | " | 0 | | | 2986 | 1 | | | | " | " | 0 | " |
| 7 | | | | " / | " | 0 | | | 29.86 | 1 . | | | | " | " | 0 | " |
| 8 | | | | m. Ly. 18. | " | 0 | | | 29.86 | 66 | 63 | 61 | | Du. | " | 0 | " |
| 9 | | | | m. s. m. | " | 2 | | | 29.84 | 66 | 64 | 6/ | | J. c. 3: | Q Cum | 2 | * |
| 10 | | | | D. D. M. | D. D. M. | 2 | | | 29.83 | 66 | 64 | 61 | | ,0 | " | 2 | " |
| 11 | | | | A. W. Ly. D. | " | 2 | | | 29.81 | 66 | 85 | 61 | | " | " | 3 | 4 |
| Noon. | | | | Dart | " | 2 | | | 29.80 | | | | | ,, | " | U | |

| Course and distance | made good since preceding noon by observa | tions, | knots. | te | enths. |
|----------------------|---|---------------------|--------|------|----------|
| | (Latitude by D. R. | | 0 | , | " |
| | Longitude by D. R. | | 0 | , | " |
| Position at Noon: | Latitude by observations of ⊙ | | 0 | , | " |
| | Longitude by chronometer from Forenoo | n Observations of ⊙ | • | , | " |
| | (Latitude by | | 0 | , | " |
| Position at 8 a. m. | Longitude by | | • | , | " |
| | (Latitude by | | | , | " |
| Position at 8 P. M. | Longitude by | | • | , | " |
| Current during the | time, knots tenths per hou | r, setting to the | | | |
| Variation of the Co | mpass by Amplitude o observed at Sunrise | , ship's head | 0 | , | " |
| Variation of the Con | mpass by Amplitude ⊙ observed at Sunset, | u | 0 | , | " |
| Variation of the Con | mpass by Azimuth ⊙ observed at | u | 0 | , | " |
| Variation of the Con | mpass by Azimuth o observed at | u | • | , | " |
| Water expended dur | ring the preceding 24 hours, | | 6 | 50 | gallons. |
| Water | during the preceding 24 hours | , | | | " |
| Water remaining on | hand fit for use at Noon, | | 1./ | ar |) u |
| Coal consumed during | ng the preceding 24 hours, | | 106 " | 840 | o lbs. |
| Coal remaining on h | and at Noon, | | 106 " | 13 % | 0 " |
| | | | | | |

| A PROPERTY OF THE PERSON NAMED IN | | | | | | | | | | | - |
|-----------------------------------|-------------|----------|--------|--------|-----|----|----|---------|--------|---|----|
| P. M. | 1 | | | | | | | 1 | | | |
| 1 | D. Ey. E. | Paut 5 | / | 29. 72 | 966 | 65 | 62 | J.c. Z. | an ann | 2 | 0 |
| 2 | 2. D. M. | D.m. | 2 | 29.7. | | | | " | " | 2 | 4 |
| 3 | Week | " | 2 | 29.7 | | 4 | | " | " | 1 | 10 |
| 4 | M. D. M. | m. s. m. | 2 | 29.76 | | | | 0.0.3. | Run i | 0 | " |
| 5. | - | " | 77 407 | 29.73 | | | | " | " | 0 | " |
| 6 | Mesh " | | | 29.70 | | | | 0.c. 4. | " | | |
| 7 | " 1 | Wish " | / | 29.7 | | | | " | " | 0 | 5 |
| 8 | 16. by m. | Hants | / | 29.70 | | | | | * | 0 | - |
| 9 | Cash | | | 29.70 | | | | | 4 | 0 | " |
| 10 | 2.16. | 6. 0. 6. | / | 29.7 | | | | o.e. | " | 0 | " |
| 11 | D.D. m. | South | 1 | 29.8 | | | | * | | 0 | 4 |
| Mid. | D. Ly. 101. | Dants | 1 | 29.77 | 62 | 61 | 09 | S. C. | " | 4 | " |
| | | | | 11/1 | | | 1 | | | | |

Commander J. J. Jewell, under the command of , U. S. Navy, Wednesday May: Zus , 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Commences Es antil 4 and Overcust with light duzzling rain fint ham. balu. Frace of levetil & aux Cury 18. 16. S. 78. for inem to brew 120 lack of fresh Solf & Vigatobles & lack of break It fel lanses lap gallent yands. Ellow in Law se fort Lain on tap Frame Paux lentel Meridians Musiglolle 1. 78. At 930 Went to quarters, exercised 1st & 2nd Decisions Just guns 30 Es Porrder Devisions Jayonet excraise, Manie is great guns, At 10 an lalled away vall boats wieder oans for exercise Carus sie charge, except Parling much Which was drilled week are officer in change, Appended 7-10'03 changes the 12 few mining Relinant A. Nausen 2 c. F. Lis live Leaving expired. Laufund M. Filzgerned, char. In Soubly wons for ten day's for theatening the ships - care. Ordered Shiringer D. As to be Confined in Souple inow for five days from sig thinky from his Teville the next luring. Grans in Lawse gant chain an tap Fram Meridian butil of PM & ient lb. S. B. Sucrally clandy Pleasant Light airs and Green from South to M. D. M. Deut sailing launch rack gove to be scrubbed. Sailinaken gang rat wank au wew Cover for Lut Culter, Clear Erawher. Mr Hoggatt Curry to 16. 9. 78 row of with 8 1818 Claudy. Xant three hours rainey. Light airs from West Placed G. A. Milliams 1.C. A. winder Sentry's charge to await further action of The Cammander, for Jeing of sunx " leaving the Goat West and plane in an Placed Men Thanfran, and Men Richards, D. S. 1.C. und Er Sentrys change for Seng winder the influence of liquer Last to award the further action of the Commander At 600 Confined Thering exercin South le rois as for ander. Cher haurely CAN Sectionity Quel 26 1 78 Frame & BH Westil Midnight Claudy with rain final haun. Light ains End Erreze lings 6. 1. 18 Examined and found to be correct. Low Galloway Lived & Navigato

| | | | | 0 | | | | | 1, | | | 0 | _ | / | | | |
|------------|--------|---------|----------------------|--------------------------------------|-----------------------------------|--------|-------|---------|-------------------|--------------|-------------------|-------------------|----------------------|-----------------------------|---------------------|----------------------------------|------------------|
| | | | Reading | | WIND. | | | | BAROME | TER. | TEMP | ERAT | URE. | 'State of | Forms of | lear ths. | Sea. |
| Hour. | Knots. | Tenths. | of Patent Log. | COURSES STEERED by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. att'd. | Air, Dry Bulb. | Air, Wet Balb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Clear Sky, in 10ths. | State of the Sea |
| A. M. 1 | | | | A. M. Lu M. | Saut | 1 | | | 29.80 | 62 | 61 | 09 | | o.c. | ai Que | 0 | 6 |
| 2 | | | | min | " " | / | 3 | | 29.80 | 2000 | | , | | L.c. | , | 3 | " |
| 3 | | | | m. 76 m. | " | 1 | , 3 | | 29.80 | 61 | 60 | 58 | | L. c. z. | Cum | 9 | " |
| 4 | | | | m. Eys. | A. M. | / | 39.7. | | 29.81 | 6/ | 60 | 58 | | , 0 | | 8 | " |
| 5 | | | | 76 m. | 76. m. | 2 | | | 29.82 | 60 | 59 | 37 | | 1" | Ci au | 5 | " |
| 6 | | | | 11 | " | 2 | +1 | | 29.88 | 60. | 59 | 50 | | b. c. x. | Cun livel | 10 | |
| 7 | | | | n. 76 m. | 76.76 m | 6 | | | 29.93 | 59 | 5-6 | 03 | | X. E. | Cenu | 3 | 1 |
| 8 | | | | " | " | 3 | | | 29.98 | | | | | , ** | " | 6 | " |
| 9 | | | | no. Ley. Mr. | Hanth | 9-4 | | | 30.02 | 60 | 55 | 50 | | 3.0.9.3. | Ci Cua | 7 | , |
| 10 | | | | 16. by 6. | 16.76. €. | 8-4 | 4 | | 30.00 | 58 | 55 | 5/ | | 0.0 | | 6 | " |
| 11 | | | | 76.76.m. | mints | 3-4 | 4 | | 30,00 | 60 | 56 | 5/ | | + | | 6 | 7 |
| Noon. | | | | n. n. 16. | n. E. | 3-4 | - | | 30,04 | 60 | 57 | 57 | | - | | 6 | 4 |
| | | | | | | | | | | | / | | | | | | 1 |

| Course and distance | made good since preceding noon by observations, | knot | s. | t | enths. | |
|---------------------|--|------|------|-----|----------|--|
| | Latitude by D. R. | 0 | | , | " | |
| | Longitude by D. R. | • | | , | " | |
| Position at Noon: | Latitude by observations of ⊙ | ۰ | | , | " | |
| | Longitude by chronometer from Forenoon Observations of ⊙ | 0 | | , | " " | |
| | (Latitude by | 0 | | , | " | |
| Position at 8 a.m. | Longitude by | c | | , | " | |
| | (Latitude by | c | | , | " | |
| Position at 8 P. M. | Longitude by | c | | , | " | |
| Current during the | time, knots tenths per hour, setting to the | | | | | |
| Variation of the Co | mpass by Amplitude ⊙ observed at Sunrise, ship's head | | | , | " | |
| Variation of the Co | mpass by Amplitude ⊙ observed at Sunset, " | 0 | | , | " | |
| Variation of the Co | mpass by Azimuth ⊙ observed at " | c | | , | " | |
| Variation of the Co | mpass by Azimuth ⊙ observed at " | | | , | " | |
| Water expended du | ring the preceding 24 hours, | | 5 | 50 | gallons. | |
| Water | during the preceding 24 hours, | | | | " | |
| Water remaining on | hand fit for use at Noon, | | 7 | 50 | " | |
| Coal consumed duri | ng the preceding 24 hours, | 106 | tons | 40 | U lbs. | |
| Coal remaining on h | and at Noon. | 11/ | " | .01 | 7 11 " | |

| P. M. | | | | | | | | |
|-------|-------------|-------|-----|----------------|---|--------|----|----|
| 1 | 16.76. m. | Manth | 3-4 | 30,03 61 595 | 2 2.09.3 | ai aun | 6 | 0 |
| 2 | no 76. L. | " | 3-4 | 30.05 62 59 5 | 2 | " | 5- | - |
| 3 | , " | " | 3-4 | 30.03 62 09 03 | | | 5 | 4 |
| 4 | , | " | 3-4 | 30.04 62 58 59 | | " | 4 | 4 |
| 5 | Henth. | " " | 2 | 3006 62 50 50 | | " | 5 | * |
| 6 | 16. Ly. E. | 16 6. | 2 | 30.086/ 525 | 2 . | " | 3 | 36 |
| 7 | " | " | 2 | 20.10 09 08 03 | THE RESERVE OF THE PERSON NAMED IN COLUMN 1 | " | 2 | " |
| 8 | 16. €. | , " | 2 | 20.11 59 56 51 | | " | 6 | " |
| 9 | € 96 €. | " | / | 30.1660 55 50 | | | * | |
| 10 | 16 & Ly & | | 2-3 | 20.16 59 54 00 | | " | 8 | " |
| 11 | | | / | 2016 59 54 50 | | | | |
| Mid, | D. L. Ly C. | " | / | 201659 54 50 | | | | |
| | | | | | | | | |

under the command of Sommandel J. D. Levell. , U. S. Navy, , 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Nammenas & lentil of all fant. Clands ai ann alice Sumis
Nay. Light wins from Down to S. M. Come in hawse at end of watch Frace of leutil & all for change of flowant, Carely claudy, Light to gette still Chain on top I m. At 145 land con to a Saw line. Elhow in Lawre A. Freduin Fram 8 act with Merideals Generally clear squally and pleasant. Gentle to Winderate as fallows Int & Dud, great gens Ind & Eigeneis, Sayonet exercise, Ponder. Stations It 10 " Went to quantino and imperted clian haminacks. Chared haw'se. Bent, set The furled mainsail. By and in of the Cammanding Officers ISI Williams, es, Was placed under the identing's change to awant further act ion for seing or mux you duly and Mu Thamp san, Dea, as Mu Richard's D. A 10. are to be Confined for fur day o un dauble inons from f om until sails for getting under the influence of legues while whose an duty. Tolers hawse. It I'm shortened dail M. Stoggatt Fram Meridian Lutil of M. Curigity. 26. 1. 78. Partly Clear Eright and land. Gentle to underate terrege in reefing topsails and Courses, when unback main sail & shawed it below. During drill Snapped lefe - Teney to ly of "wan over board. Picked up Snay in 1 him \$ 555 see Sur ou yand wait by lavers, blear hause at end in watch Fram of Lutil 8 1978 lunger lb. S. 98. At sharted fines in Sailers & 2 203 fan Tubilling. At 630 Confined & Storing " Dun Is, M. Richards, ARIC, " Mu Thampson, Dea, as four ander of the Course officer Placed Al Suig, Los, wenter Senting 6 change to warber, At Runch Sent favor top galleut die voyal yands es unbent light sails. Ches Laudse end af Walch Light wino to year le Greeze fram B. E. Stanked Frakelling at 800. Examined and found to be correct.

| | | | | | / | | | | |
|---|-------|-------------|-------|---|------------------|------|--------|----|----|
| | P. M. | | | | | 1 | | | |
| | 1 | 2. 6. | D. M. | 2 | 30.19 60 60 55 | Leg. | ar Cum | 6 | 0 |
| | 2 | D. D. M. | " | 2 | 30.15 60 59 54 | | ai ann | 6 | ** |
| | 3 | D. M. | " | / | 30. 18 61. 60 55 | | " | 7 | - |
| (| 4 | D. M. Ly D. | 0" | / | 20,13 63 63 68 | | " | m | 1 |
| | 5 | ", | Calu | 0 | 30,11646256 | " | | 5 | |
| | 6 | Mr. Ley A. | " | 0 | 30.10 64 62 07 | " | 4 | 5 | ** |
| | 7 | Wich | " | 0 | 30.09 63 62 57 | , | " | 6 | - |
| | 8 | " | 4 | 0 | 30.0963 6/ 56 | | 4 | 7 | ** |
| | 9 | Dr. 76. Mr. | | 0 | 30.1062 59 55 | " | ', | 7 | " |
| | 10 | " | " | 0 | 30.10 62 59 00 | , | | 14 | - |
| | 11 | " | " | 0 | 30.11 61 58 634 | | 4 | 6 | * |
| | Mid. | " | * | 0 | 30.11 61 51 54 | " | 1 | 5 | 1 |
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under the command of Osumander J. J. Lewell O'ruday May 4 th , U. S. Navy, , 1888 . RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Communa and lutel of aux last hour When Calm. Distilling. Than haure Ty To ouris If so omile Fram of heutil & act lange, balen at high aim from 188.

Sy ander of The County officer reliant the shing, L'so, from langine encey be being subser. Comment for some subserved for resident sin Say Deft 120 lles each of frush beef soud Vegetables and 100 lles of frush bread. At 145 lone ed las jallent is roy at your Cliar Lawre Fram & all butil Meridian Curight ally Overcust finet have, Clearing rafter wands Light ains until last haur When light terrege Came and from D.E. At 900 gat out fort launches. At 9.30 Went to quantos for uniter to impression, rafter which an alarm of Cellisian was samu ded, the ship haked " Candas awing gut over Atso Som, valanton ship, time 10 mins, Naisted part Foats & Serubbed Strobood Rapper. Las tanfed exercise. D' L. Pallock, aver, reparted in en lint zuent vag tiaving expired. M.N. D'inyero, Pm, Was I rought off by Municipal Palice 28/2 hours raver time. Dust elling. Le rais in Lawre at end of watch Moundone Fram. 78 widian leutil. of 198. Mungy 618 Flair It Waren Wenther. Ling El Terecze deer cas ing to light vains fram D. M. At 100 listed ship to sita. Cleaned fant lapper, Duilled Rome sapprentices out sigual? Drilled eftia Inill squad. Tullacked Alunge, etter Launtry, and Broth. Seek France of Cutil & Por Everges lb. S. 8. Generally Clear with Cir Cum Clando Nagy & Blensaut Winted lacking launch Such favor royal yands and lunder Canfined W. Dhurunger, Que Bo, " of Mu Thanifsau, Dun, accanding to and and to make in hawse at end of watch Lucigal 1. 7. Hram 8 Pos until Midingal awire at en of watch, Stanbourd hain on tax Examined and found to be correct. to Salloway Extent &

LOG of the United States Cosy

Marred in the Learner of Kide Japan

| | | | Dardina | | WIND. | | | | BAROME | TER. | TEMP | ERAT | URE. | | | lear hs. | Sea. |
|------------|--------|---------|---------------------------------|--------------------------------------|-----------------------------------|--------|-------|---------|-------------------|--------------|-------------------|-------------------|----------------------|---|------------------------------------|----------------------------------|-----------------|
| Hour. | Knots. | Tenths. | Reading of Patent Log. | COURSES STEERED by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. att'd. | Air, Dry Bulb. | Air, Wet Bulb. | Water at Surface. | State of the Weather, by symbols. | Forms of Clouds, by symbols. | Prop. of Clear Sky, in 10ths. | State of the Se |
| A. M. 1 | | | | 76. m. | Calm | 0 | | | 20.11 | 61 | 5-4 | 54 | | J. o. g. | li am | 4 | 50 |
| 2 | | | | 16.m. by m | " | 0 | | | Se.11 | 61 | 54 | 54 | | 0, c. 3. | " | 0 | " |
| 3 | | | | 10. M. | company. | 0 | | | 20.11 | 61 | 57 | 54 | _ | ",0 | " | 0 | 1 |
| 4 | | | | Euch | | 0 | | | 30.09 | 61 | 57 | 54 | - | " | ,, | 0 | " |
| 5 | | | | | , | 0 | | | 30.08 | 60 | 56 | 54 | | " | Com este | 0 | 1 |
| 6 | | 4 | | 76. E. | " | 0 | | | 20.10 | 60 | 56 | 54 | - | " | " | 0 | , |
| 7 | | | | . " | 1 | 0 | | | 30,10 | 60 | 5-4 | 35 | | 1" | , | 0 | " |
| 8 | | | | 76 & Ly &. | " | 0 | | | 20,10 | 60 | 5-9 | 57 | | V. c. 3. | * | 2 | 4 |
| 9 | | | | C. Ley D. | E. Su . P. | / | | | Se,10 | 6/ | 60 | 58 | | " | " | 6 | 4 |
| 10 | | | | € 5 €. | 7.00 | / | | | 30.08 | | | 59 | | " | 1 | 6 | " |
| 11 | | | | D. C. | D. E. Ly D. | / | | | 30,07 | . / / | 62 | 59 | | | " | 6 | " |
| Noon. | | | | Dant | " / | / | | | 30,09 | 65 | 63 | 60 | | " | * | 5 | " |
| | | | | | | | | | - | | | | | 4 1 | | | |

| Course and distance | made good since preceding noon by observation | ns, | knots. | tenths. | |
|---------------------|---|-------------------|--------|--------------|--|
| | Latitude by D. R. | | 0 | , " | |
| | Longitude by D. R. | | • | , ,, | |
| Position at Noon: | Latitude by observations of ⊙ | 1 | 0 | , ,, | |
| | Longitude by chronometer from Forenoon (| Observations of ⊙ | • | , ,, | |
| | (Latitude by | | 0 | , " | |
| Position at 8 a. m. | Longitude by | | 0 | , " | |
| | (Latitude by | | 0 | , " | |
| Position at 8 P. M. | Longitude by | | 0 | , " | |
| Current during the | time, knots tenths per hour, s | setting to the | | | |
| Variation of the Co | ompass by Amplitude o observed at Sunrise, sh | nip's head | . 0 | , " | |
| Variation of the Co | mpass by Amplitude ⊙ observed at Sunset, | " | 0 | , " | |
| Variation of the Co | mpass by Azimuth ⊙ observed at | u | 0 | , " | |
| Variation of the Co | mpass by Azimuth o observed at | " | | , " | |
| Water expended du | ring the preceding 24 hours, | | | 35 Ugallons. | |
| Water Vis | tilled during the preceding 24 hours, | | /3 | s'ac " | |
| Water remaining on | hand fit for use at Noon, | | 2, | 800" | |
| Coal consumed duri | ng the preceding 24 hours, | | / tons | s 500 lbs. | |
| Coal remaining on h | nand at Noon, | | 103 " | 91 " | |
| | | | | 1 | |

| P. M. | | | | | 1 | | |
|-------|----------------|----------|---|-----------------|--------|--------|------|
| 1 | Paut | D.D. m. | | 30.0266 6560 | 2.0.8. | ai ann | 7 60 |
| 2 | , 3 | " | | 20,00 68 4 59 | , | 4 | 7 " |
| 3 | A.M. | " | | 29.97 69 6457 | | | 8" |
| 4 | M. B. M. | Dutt | | 29.95 1/ 6859 | | | 8. |
| 5 | " | 2. A. M. | | 29.9671 70 62 | | | 8" |
| 6 | Much | " | 1 | 29.96 68 89 59 | " | * | 8" |
| 7 | ") " | " | | 29. 95-67 65 59 | , | " | 8 " |
| 8 | Dr. Ly B. | 1 " | | 29.96 65 64 58 | | ' 4 | 8 |
| 9 | 10. Dr. Ly 18. | Calu | | 30.0065 64 58 | | " | 4 |
| 10 | Mich. | " | | 30.00 65 64 58 | , | | 5 |
| 11 | " 1 | " | | 30,00 65 8408 | 1 | | 7, |
| Mid. | 16. M. Ly M. | " | | 30.00 65 64 38. | | " | 4 |

Dominander J. D! Jewell, Daturday May 5th under the command of , U. S. Navy, , 1888 . RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Jule & Lauled Gires. Elbow in Lawse rat end of which Story chain an top Xuent 16.1.10. Overcut with thier hage until last hand, when cleaning slight by bland's lun & str. Calen. Pleasant. Liberty party returned. Received in Pay Dy and usined to and 125 lbs each of frush seef El Vegatables El 100 lbs of frush bread. Beliased N. Decruger, In Er, "Les Men Thampson, relanding to anders. Companies Al formatione. Ham & allo hutil Meridian lingull. S. 18.

Flair & Mann. Hozy. Light ains fram E. Ly. D. & De by D.

At 935 inspected Lagir & llesting. brans in Lawre at end of watch still hair outof Hoomes Jeram Meridian leutil of PTB Ques glob I S. S. Laws List Sels on brans is hawse, stod chain an tap cs & Senin Trace of leutil & PM. Lient U. J. 18.
Character Cauche Exercised prioduces for half an hour. Reconfined mus.
Thampson Dea, Ed S. Alexanger On Ev, Clear Leawer at und of watch From 8 PM leutil of Sidnight leave at end of watch Curight 26. S. X Lient U. S. 78. Examined and found to be correct. Collection Navigator

| | | | Reading | | WIND. | | | | BAROME | TER. | TEMI | PERAT | URE. | State of | Forms of | f Clear 10ths. | e Sea- |
|-------|--------|---------|----------------|--------------------------------------|-----------------------------------|--------|-------|---------|-------------------|--------------|-------------------|----------------|----------------------|-----------------------------|---------------------|--------------------------|--------------|
| Hour. | Knots. | Tenths. | of Patent Log. | COURSES STEERED by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther, att'd. | Air, Dry Bulb. | Air, Wet-Bulb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of C Sky, in 10 | State of the |
| A. M. | | | | n. Ly E. | Calm | 0 | | | 29.96 | 63 | 63 | 60 | | J. c. Z. | ar ann | 3 | 20 |
| 2 | | | | 16.54 m. | " | 0 | | | 29.96 | 63 | 63 | 60 | | 0.8. | Eur mind | 3 | , |
| 3 | | | | , | " | 0 | | | 29.94 | 63 | 63 | 60 | | , | 4 | 3 | " |
| 4 | | | | " | " | 0 | | | 29.94 | | | | | 0.c. N. | " | 0 | , |
| 5 | | | | @ " | " | 0 | | - | 29.95 | 64 | 62 | 59 | | " | " | 0 | " |
| 6 | | | | Kuch | Cark | / | | | 29.97 | 63 | 61 | 59 | | " | " | 0 | * |
| 7 | | | | 11 | 16.76.16. | 2 | | | 29.98 | 63 | 60 | 58 | | 11 | " | 0 | " |
| 8 | | | | €. 76. C. | " | 2 | | | 30,00 | 64 | 61 | 57 | | 11 | " | 0 | " |
| 9 | | | | 6. Ly. 78. | " | 3 | | | 30.00 | 63 | 60 | 56 | | " | " | 0 | " |
| 10 | | | | 6 16 6 | 11 | 3-4 | - | | 30.00 | 63 | 59 | 56 | No. | 0.c. g.r. | , ,, | 0 | " |
| 11 | | | | " | " | 3-4 | 4 | | 29.97 | | | | | " | , | 0 | " |
| Noon. | | | | 76 E. Ly & | 11 | 3-4 | 4 | | 29.97 | 62 | 59 | 57 | | " | " | 0 | " |
| | | | | / | | | | | | | | 1 | | | | 1 | 1 |

| Course and distance | made good since preceding noon by observat | ions, | knots. | tenths. | |
|---------------------|--|-------------------|--------|-------------|--|
| | (Latitude by D. R. | | 0 | , ,, | |
| | Longitude by D. R. | | 0 | , " | |
| Position at Noon: | Latitude by observations of ⊙ | | 0 | , " | |
| | Longitude by chronometer from Forenoon | Observations of ⊙ | | , " | |
| | (Latitude by | | 0 | , ,, | |
| Position at 8 a.m. | Longitude by | | 0 | , ,, | |
| | (Latitude by | | 0 | , ,, | |
| Position at 8 P. M. | Longitude by | | | , ,, | |
| Current during the | time, knots tenths per hour | , setting to the | | | |
| Variation of the Co | mpass by Amplitude ⊙ observed at Sunrise, | ship's head | 0 | , " | |
| Variation of the Co | mpass by Amplitude ⊙ observed at Sunset, | " | 0 | , " | |
| Variation of the Co | mpass by Azimuth ⊙ observed at | " | 0 | , ,, | |
| Variation of the Co | mpass by Azimuth ⊙ observed at | u | • | , " | |
| Water expended du | ring the preceding 24 hours, | | نی | 50 gallons. | |
| Water | during the preceding 24 hours, | | | " | |
| Water remaining on | hand fit for use at Noon, | | 2.5 | 00 " | |
| Coal consumed duri | ng the preceding 24 hours, | | tons | 400 lbs. | |
| Coal remaining on h | hand at Noon, | | 102 " | 1930 " | |
| | | | | / | |

| 6. n. E. | 6.76.6. | 3-4 | 24.97 62 | 61 | 58 | 0.0.9.1. | Cum Trial | 10 | 0 |
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| " | 16. 6. Ly 6. | 4 | | | | | 4 | 0 | |
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| | " | 16. E. Ley. E. ". " 16. E. Ley. E. ". " " " " " " " " " " " " " " " " " " | 16. E. Ley. E. " 3-4 " 16. E. Ley. E. 4 " 4 " 4 " 3-0 " 3-0 " 3-0 | 16. E. Ly. E. " 18. Ly. E. " 19.91 62 19.89 62 19.91 62 19.91 62 19.93 62 19.93 62 19.93 62 19.93 62 19.93 62 19.93 62 19.93 62 19.93 62 19.93 62 | " 3-4 24.94.62 61 " 3-4 24.94.62 61 " 3-4 29.91.62 61 " 19.89.62 60 " 19.89.62 59 " 19.91.62 59 " 29.93.62 59 " 3-0 29.93.62 59 " 3-0 29.93.62 59 " 3-0 29.93.62 59 | " 3-4 24.94.62 6/59 " 3-4 24.94.62 6/59 " 3-4 29.99.62 6/59 " 4 29.89.62 60 58 " 4 29.89.62 59 59 " 4 29.93.62 59 59 " 4 29.93.62 59 59 " 4 29.93.62 59 59 " 4 29.93.62 59 59 " 4 29.93.62 59 59 " 4 29.93.66 57 59 | 16. E. Ly. E. " 3-4 24. 92. 62. 61. 59 " 29. 91. 62. 61. 59 " 29. 99. 62. 60. 58 " 29. 99. 62. 60. 58 " 29. 91. 62. 59. 57 " 29. 93. 62. 59. 57 " 29. 93. 62. 59. 57 " 29. 93. 62. 59. 57 " 29. 93. 63. 59. 57 " 29. 93. 64. 57. 57 " 29. 93. 64. 57. 57 " 29. 93. 64. 57. 57 | 10. 6. Ly. 6. " 3-4 24. 92. 62 61 59 " 29. 91. 62 60 58 " 29. 89. 62 60 58 " 29. 89. 62 50 50 7 " 29. 91. 62 50 50 7 " 29. 91. 62 50 50 7 " 29. 93. 62 50 50 7 " 29. 93. 62 50 50 7 " 29. 93. 62 50 50 7 " 29. 93. 62 50 50 7 " 29. 93. 62 50 50 7 " 29. 93. 62 50 50 7 " 29. 93. 62 50 50 7 " 29. 93. 63 59 50 7 " 29. 93. 64 50 50 7 " 29. 93. 64 50 50 7 " 29. 93. 64 50 50 7 " 29. 93. 64 50 50 7 " 29. 93. 64 50 50 7 " 29. 93. 64 50 50 7 " 29. 93. 64 50 50 7 " 29. 93. 64 50 50 7 " 29. 93. 64 50 50 7 " 29. 93. 64 50 50 7 " 29. 93. 64 50 50 7 " 29. 93. 64 50 50 7 " 29. 93. 64 50 50 7 " 29. 93. 64 50 50 7 " 29. 93. 64 50 50 7 " 29. 93. 64 50 50 7 " 29. 93. 64 50 50 7 " 29. 93. 64 50 50 7 " 29. 93. 64 50 70 7 " 29. 93. 64 50 70 7 " 29. 93. 64 50 70 7 " 29. 93. 64 50 70 7 " 29. 93. 64 50 70 7 " 29. 93. 64 50 70 7 " 29. 93. 64 50 70 7 " 29. 93. 64 50 70 7 " 29. 93. 64 50 70 7 " 29. 93. 64 50 70 7 " 29. 93. 64 50 70 7 " 20. 20. 20. 20. 20. 20. 20. 20. 20. 20. | 16 6 Ly 6. " 3-4 24.92.62.61.59 " 10 6 Ly 6. 4 29.91.62.61.59 " 10 6 Ly 6. 4 29.89.62.60.58 " 11 14 29.89.62.59.57 " 11 14 29.91.62.59.57 " 12 19.93.62.59.57 " 10 10 10 10 10 10 10 10 10 10 10 10 10 1 |

Commander J. D. Lewell Dunday May 6 4.5 , U. S. Navy, under the command of , 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Gamerally Clausy with rain last hour. Calm Clear hourse Fracu of leutil 8 all Ensign Lines Law Est light ains from Cost Second Lour, as for Temainder of watch light weege from E. M.E. Believed for the bay men Thompson, Dea & N. Duringer, Dr En, Char Lawre at end of watch From & ald lutil Meridiane Cusique U. S. 7.

Cainey. Dognaly, boal. Wend gentle to besterate from & 70 E.

Transferred F. Dunit, crosc, to hardetal on share, blur hawse at end of watch Fram Meridian butil of PM Lient 26. S. 78.

Overcout Aqually & Fainey. Gentle to Merderate Liverge from
St. 76. E. Exercises Court-Montial Journamers for one Leaus. Mont sen from Each. Charteries Frame of lintel 8 Post.
Ramier Minder ale dreeze from 6'76. 6. blear haw se at end of water Moserate Sen from E. No. E. Clear Learne. Eury & C. 8. Examined and found to be correct.

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| | | | Reading | | WIND. | | | | BAROME | TER. | TEMI | PERAT | | State of | Forms of | Clear oths. | re Sea. |
| Hour. | Knots. | Tenths. | of Patent Log. | by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. att'd. | Air, Dry Bulb. | Air, Wet Bulb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Clea Sky, in 10the | State of the |
| A. M. | | | | €. H. E. | 16. E. Ly. E. | 3-5 | | | 29.95 | | | 1000 | | o.c. g.s. | Muil | 0 | 象. |
| 2 | | | | " | | 3-0 | | | 29.93 | | | | | , | " | 0 | " |
| 3 | | | | " | . " | 3-0 | | | 29.93 | 60 | 58 | 56 | | , | | 0 | " |
| 4 | | | | " | " | 3-5 | | | 29.94 | 60 | 08 | 56 | | , | " | 0 | ., |
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| 6 | | | | , | " | 9-4 | / | 0 | 29.95 | 58 | 07 | 55 | | в.c.9. л. | Cumide | 1 | ., |
| 7 | | | | 16. E. Sy. E. | " | 9-4 | / | | 29.90 | 90 | 56 | 58 | | J. c. 91. | ai com | 3 | " |
| 8 | | | | " | " | 5-4 | | | 29.95 | | | | | | ar Cum | 1 | " |
| 9 | 100 | 1 | | E. Ly. 76. | €. n. E. | 3-5 | | 0 | 29.97 | 62 | 61 | 58 | | 0. C. 950 | " | 2 | " |
| 10 | | | | VE. 16, VG. | " | 3-0 | • | | 29.98 | 63 | 63 | 0-9 | | , | " | 3 | " |
| 11 | | | | E by 16. | " | 3-5 | | | 19.99 | 64 | 64 | 59 | | ,, | . " | 4 | |
| Noon. | | | | E 76. C. | | 3-5 | | | 29.99 | | | | | " | 11 | 5 | - |
| | | | | | | | | | | | | | | 1 | | | 1 |

| Course and distance | made good since preceding noon by observations, | knots. tenths. | |
|---------------------|--|----------------------|--|
| | (Latitude by D. R. | 0 , " | |
| | Longitude by D. R. | 0 , , | |
| Position at Noon: | Latitude by observations of ⊙ | 0 , , | |
| | Longitude by chronometer from Forenoon Observations of ⊙ | 0 / // | |
| | (Latitude by | 0 , " | |
| Position at 8 a. m. | Longitude by | 0 , " | |
| | (Latitude lift | 0 / " | |
| Position at 8 P. M. | Longitude by | 0 , " | |
| Current during the | time, knots tenths per hour, setting to the | | |
| | ompass by Amplitude ⊙ observed at Sunrise, ship's head | . , , | |
| Variation of the Co | ompass by Amplitude ⊙ observed at Sunset, " | 0 , ,, | |
| Variation of the Co | ompass by Azimuth ⊙ observed at " | 0 , " | |
| Variation of the Co | mpass by Azimuth o observed at " | 0 , " | |
| | ring the preceding 24 hours, | 350 gallons. | |
| Water | during the preceding 24 hours, | " | |
| Water remaining or | n hand fit for use at Noon, | 2/50 " | |
| Coal consumed duri | ing the preceding 24 hours, | 2/50 " tons 400 lbs. | |
| Coal remaining on l | | 102 "1530 " | |
| | | | |

| P. M. | | | | | , | | | |
|-------|--------------|----------|------|------------------|--------|---------|---|----|
| 1 | 76. E. Ly E. | € 76. G. | 3-5 | 29.97. 65 66 760 | Legg. | Ti saat | 5 | 78 |
| 2 | 16. 76. E. | " | 3-0- | 29.9666 66 60 | 80 | " | 0 | - |
| 3 | SE. Ly. 76. | " | 3-5 | 29.97676660 | , | " | 5 | - |
| 4 | €. No. E. | " | 3-0- | 29.91676661 | | " | 5 | - |
| 5 | " | * | 3-5 | 29.98 67 66 61 | " | " | 4 | - |
| 6 | 4 | • | 4-0 | 30.01666560 | " | " | 3 | 1 |
| 7 | " | " | 3 | 30.0165-6409 | 1" | " | 3 | - |
| 8 | ", | | 4, | 30,04636358 | 8.0.3. | nuil | 9 | |
| 9 | 76. E. Ly & | " | 4 | 30.0665 6359 | J.C. | " | 6 | |
| 10 | "," | " | 4 | 30.0765-63 37 | , | | 1 | 1. |
| 11 | " | " | 3 | 30,01656208 | " | | 9 | " |
| Mid. | " | " | 3 | 3007.64 6208 | | " | 0 | 13 |

under the command of Cammant of J. J. Swell Monday may The , U. S. Navy, RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Landinual rain. Heavy winders blands Gentle to shiff incy.
in under ale squalle from E. No. E. Char haw se Al Comentone O'ram of limited & all Cusing Sent to Shiff Surge from E. 76 E. Chemed for lew 125 lbs each of fruit Seef to Vegalobles to Jos lles of Suns plant for laws CAT Decemmen Frace & act autil Meridian X rent 26. 1. 98. Generally clausy squally & Jeagy. But le to stiff Theege from 16 No. 16. At 933 went to quarters at Samueled retrial val 10 45. Trates mayagene En Shill- room of land cocks of found Shien in good Condition and Sea from Carp. Colear Teaw le From Meridian Cutil of Por Circipa Il 18 Partly Clear, Ling Like Es & lear and Gentle to shiff Line ge in broderate Aquallo from 6.96.6. Theory ai ann & Strat Clauds. Danped atage wants and Lead booms as aries gaff s. Of tra frill equal exercised for one hour at hum end of arms. Aleased N. Sheringer. Or gr, the line for which he was Confined Leaving expired. Siglish gunbant Ratiler came in, Such an afficir to extend untimat courtains, Clear Law se James long Fram of leutil. 8. 18. Curique 76 1. 78. Generally clandy squally & Logy. Sentle to steff Energe from E. No. E. H. B. M. D. Lauler shifted Ferth. Cheened an afficial Vigit now are officed of the Battler. Exercised General Dourt Markial Prisoner for any track an Lawr. Confined oren Thompson, Dea, and Will Tichande D.A. 12. Yand anus to lunch, hind hea from last, Chear hands at end of watch Frame & Post until Medingles lungar 1. 18 Junglet Spanlight. Butle to underate Truze from E. H. E. Plensant. Class Examined and found to be correct.

LOG of the United States Seawer Eses, Rate, Marred in the Garbar of Kobe Japan

| | | | | | | | | _ | | | | | | | | - | - |
|-------|--------|---------|----------------------|----------------------|--------------------------------|--------|-------|---------|-------------------|--------------|-------------------|-------------------|----------------------|-----------------------------|---------------------|--------------------------------|----------------|
| | | | Reading | | WIND. | | | | BAROME | TER. | TEMP | ERAT | | State of | Forms of | Clear oths. | e Sea- |
| Hour. | Knots. | Tenths. | of Patent Log. | by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. att'd. | Air, Dry Bulb. | Air, Wet Bulb, | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Clea Sky, in 10ths | State of the S |
| A. M. | | | | 76. E. | €. 76. E. | 3 | | | 30.05 | 64 | 62 | 58 | | S.c. 3. | Cir Que | 4 | * |
| 2 | | | | " | | 3 | | | 30.04 | | | | | | " | 18 | " |
| 3 | | | | " | " | 3 | | | 30,01 | 63 | 6/ | 57 | | | " | 8 | " |
| 4 | | | | " | , | 3 | | | 30,04 | 63 | 60 | 57 | | , | Cen | 9 | " |
| 5 | | 100 | | €. no. E. | " | 3 | | | 30.08 | 23 | 60 | 5-1 | | " | an sli | 17 | " |
| 6 | | | | No. E. Ly. E. | | 3 | | | 30.09 | 63 | 2/ | 58 | | " . | " | 1 | " |
| 7 | | | | 6 96.6 | 76 le. by E. | 3 | | | 30.11 | 4 1 | | 100000 | | " | " | 8 | ", |
| 8 | | | | " | 6.16. C. | 3 | | | 30/2 | 1 | | . / | | 4 | 4 | 6 | " |
| 9 | | | | " | " | لحا | | | 30,11 | | 1 / / | - | | " | " | 7 | 15 |
| 10 | | | | " | " | 3 | | | 30,11 | | | | | " | " | 1/2 | |
| 11 | | | 1 | " | " | 3 | | | 30.11 | | | | | " | " | 6 | , " |
| Noon. | | | | . " | " | 3 | 1 | | 30.10 | 167 | 68 | 62 | | " | " | 4 | |
| 1 | | | 1 | | | | | | | | 1 | | | | | | 1 |

| Course and distance made good since preceding noon by observations, | knots. | te | nths. |
|--|-------------|-----|----------|
| (Latitude by D. R. | 0 | , | " |
| Longitude by D. R. | 0 | , | " |
| Position at Noon: Latitude by observations of ⊙ | • | , ' | " |
| Longitude by chronometer from Forenoon Observations of ⊙ | 0 | | " |
| (Latitude by | ۰ | , | ii . |
| Position at 8 a. m. Longitude by | • | , | " |
| (Latitude by | 0 | , | " |
| Position at 8 P. M. Longitude by | • | , | " |
| Current during the time, knots tenths per hour, setting to the | | | |
| Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head | 0 | , | " |
| Variation of the Compass by Amplitude ⊙ observed at Sunset, " | 0 | , | " |
| Variation of the Compass by Azimuth ⊙ observed at " | • | , | " |
| Variation of the Compass by Azimuth ⊙ observed at " · | | , | " |
| Water expended during the preceding 24 hours, | 3 | 50 | gallons. |
| Water during the preceding 24 hours, | | | u |
| Water remaining on hand fit for use at Noon, | 2.8 | 00 | " |
| Coal consumed during the preceding 24 hours, | 0,8 ton: | 40 | o lbs. |
| Coal remaining on hand at Noon, | 110. " | 113 |) " |

| P. M. | 12-12-22 | 64 6 | 6 | | | 1 | 2:0 | m |
|-------|----------|--------------|-------------|-----|----------------|----------|-------------|-----|
| 1 | | 6 %. C. | C. N. E. | 3 | 30.09696863 | J. c. 3. | ali 1 | |
| 2 | | C. by. 76. | " | 3 | 30.10 70 69 63 | - " | ar am sti | |
| 3 | | C. 76. C. | " . | 3 | 30.1070 68 63 | " | " / | " |
| 4 | | " | " | 3 | 30.10696762 | | " 0 | " |
| 5 | | ,, | " | 3 | 30,0968 66 61 | 0,0.3 | , 0 | |
| 6 | | " | " | 5 | 30.1069 65 61 | 1" | ar auch 2 | - |
| 7 | | No. 6 Ly. E. | " | 3-4 | 30.1066 64 61 | S. c. Z. | ar ana 2 | " |
| 8 | | € 96.6 | " | 3-4 | 30.1066 6460 | , | "/ | * |
| 9 | | | ME & L. C. | 3 | 30.1066 53 59 | | ca como 17 | - |
| 10 | | No. 6. Ly 6. | No E Ly. C. | 3 | 30.10645309 | 4.0 | " 18 | -11 |
| 11 | | 76 6 | | | 1, 1 | | . 8 | " |
| 10000 | | ,,, | 76. 6. | .5 | 30.106463 59 | | " 18 " 8 | |
| Mid. | | " | | 0 | 30.1063 62 58 | | | |

under the command of Sauluandes J. J. Sewell Junesay May 18th , U. S. Navy, , 1899. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Commences & Centil of and Colour & plens and Nazy. Gentle Energe from E. 76. E. Cher hawse Becinco for innu in Pay Dept 99 lles of fruit Grent, at 145 Dent up topgallent your as hearts, be lear hawne dat end of watch Frame 8 and levetil Meridian Sunand. Claude, and Edward us. Hogy. Gentle Greeze from E. K. E. Lanned Sais to a Law line gat go clock. Went to quarter fur unster & impection och ges, after which formed Sattalion & Trilled Campanies & artillery. Cammanding Officer of N. B. m. S. Ratule" Caled Office ily Sweriean Garx "Dumbeam" gat under way & Come to anchor in affing blir Name It Vous Istone Fram Meridian lutil of PM. Dulled extra Trill equal at infantry ed Some of the apprenties of Rigues. Dail unker o gang repairing ellist sail. Geles is Jinsoners. At 350. Junted Sail. blear hawse! Dy reason of his own regreat descharge Toples ingles. Severally Claudy. Nazy. Claudo ai Cum. Es himb. Dent Cambines mon Galler of an Stage lusleglo. Cost Caupined mo Recharde, A.R.1.8. vaccanding to onter o leliar Law de A Vanadoue Hram 8 Pos leutil Midinglik Clear Gentle to light Lucy from 696.6 Et n. E Sy. E. blear Lawre leinig 18 d. In Il for my Chingall. 1. 18. Examined and found to be correct. LOD Fallow day

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Mannes in the Garban of Kabe Japan

Rate,

| | | | Reading | | WIND. | | | | BAROME | TER. | TEM | PERAT | URE. | State of | Forms of | lear ths. | o Sea. |
|-------|--------|---------|----------------------|---------------------|-----------------------------------|--------|-------|---------|-------------------|--------------|-------------------|---|----------------------|-----------------------------|---------------------|----------------------------|--------------|
| Hour. | Knots. | Tenths. | of Patent Log. | by Standard Compan. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. att'd. | Air, Dry Bulb. | Air, Wet Bulb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Cl Sky, in 10t | State of the |
| A. M. | | | | 16. 6 Ly. 6. | No. E. Ley. E. | 3 | | | 30.10 | 63 | 62 | 58 | | S.c. | ar au | 7 | 8 |
| 2 | | | | The said | " | 3 | | | 50.10 | | | | | " | 4 | 4 | " |
| 3 | | | | , | " | 3 | | | 30.08 | - | , | 1000 | | " | 1, , | 3 | " |
| 4 | | | | , | " | 3 | | | 30.08 | 1 1 | | / . | | 1 | and result | 1 | " |
| 5 | | | | 4 | " | 3 | | | 30,08 | 64 | 6/ | 37 | _ | 8.0. 3. | " | 3 | 1 |
| 6 | | | | , | " | 3 | | | 30.07 | 164 | 6/ | 5-4 | | " | 4 | 2 | 1) |
| 7 | | | | | " | 3 | | | 30.09 | 64 | 62 | 68 | | 11 | 4 | / | * |
| 8 | | | | " | " | 3 | | | 30,09 | 164 | 63 | 58 | | " " | " | / | " |
| 9 | | | | " | , | 3-4 | / | | 30,10 | 65 | 64 | 60 | | , | , | / | " |
| 10 | | | | C. 16. VE | , | 3 | | | 30,10 | - | - | THE OWNER OF THE OWNER OWNER OF THE OWNER | | 4 | , | 1 | , |
| 11 | | | | " | " | 3 | | | 30,11 | 66 | 66 | 6/ | | " | * | 1 | , |
| Noon. | | | | " | , | 3 | | | 30.11 | 66 | 66 | 6/ | | , | ir | / | |
| | | | | | | | | | | | | | | | | | |

| Course and distance | made good since preceding noon by observation | ns, | knots. te | enths. |
|---------------------|---|-------------------|-----------|----------|
| | (Latitude by D. R. | | 0 , | " |
| | Longitude by D. R. | | 0 , | " |
| Position at Noon: | Latitude by observations of ⊙ | | 0 , | " |
| | Longitude by chronometer from Forenoon C | Observations of ⊙ | • , | " |
| | (Latitude by | | • , | " |
| Position at 8 a. m. | Longitude by | | 0 , | " |
| | (Latitude by | | , 0 ', | ". |
| Position at 8 P. M. | Longitude by | | 0 , | " |
| Current during the | time, knots tenths per hour, s | setting to the | | |
| Variation of the Co | mpass by Amplitude o observed at Sunrise, sh | nip's head | 0 / | " |
| Variation of the Co | mpass by Amplitude ⊙ observed at Sunset, | u | 0 / | " |
| Variation of the Co | mpass by Azimuth ⊙ observed at | " | 0 , | " |
| Variation of the Co | mpass by Azimuth o observed at | " | 0 , | " |
| Water expended du | ring the preceding 24 hours, | | 300 | gallons. |
| Water | during the preceding 24 hours, | | , | " |
| Water remaining on | hand fit for use at Noon, | | 1450 | " |
| Coal consumed duri | ng the preceding 24 hours, | | tons Ho | O lbs. |
| Coal remaining on l | nand at Noon, | | 102 "73 | 0 " |
| | | | - / / | |

| - | the same of | THE OWNER OF THE OWNER OWNER OF THE OWNER OW | proposition in | A STATE OF THE PARTY OF THE PAR | COLUMN TO SERVICE AND ASSESSMENT OF THE PARTY OF THE PART | - | A COLUMN TO THE OWNER OF THE OWNER OWNER OF THE OWNER OW | - | CONTRACTOR OF THE PARTY OF | THE PERSON NAMED IN | Topics of the last | The same of the sa | - | |
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| P. 1 | M. | | | , | | | | | | | 1 | | | 11 |
| 1 | | | | 16. €. Suy €. . €. 76. €. | No. 6. Ley. 6. | 3 | 30.03-0 | 64 | 67 | 61 | 5.0. g. | ai au | ./. | A |
| 2 | | | | €.76. E. | , / | 4 | 30.036 | 4 | | 1 | , | " | 1 | 1 |
| 3 | | | | " | " | 4 | 30.016 | 11 - | | 7 | - " | | | |
| 4 | | | | " | C. n. E. | 3 | 30.00 | 1 - | | | | " | 1 | " |
| 5 | | | | " | " | 3 | 30.016 | 10 | 6 | , | 0.0.3. | ar aun | 0 | " |
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| 7 | - | | | " 1 | | 9 | 30,09 | | | | " | ,, | 0 | " |
| 8 | , | | | 76 6. Ly. 6 | " | 3 | 30.096 | | | | " | 4 | 0 | " |
| 9 | | | | n. E. Ly. 6 | , | 3 | 30.03 | 111 | | 1 | 10 | " | 2 | " |
| 10 | | | | * | " | 3 | 30.036 | 10 | , | | У.с.д. | | 0 | " |
| 11 | | | | " | * | 2 | | | , | | 0.0.3.2 | " | 0 | " |
| Mie | 1. | 3 | | , | | 2 | THE RESERVE OF THE PERSON NAMED IN | | | | o.c. z. r | 11. | 0 | 1 |
| | 1 | 300 | | | | | | | - | | | U | | - |

under the command of Sommander J. D. Sewell Wednesday May 9th , U. S. Navy, , 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Commences Et util of all Gentle Guerge from E. 76. E. Cles Lower Cs. Deensty Generally Claudy. Wazy. Claud's aun. Strak. Es muiber Gentle huge & now H. E. Ly E. Reliand Mu Richard , D. A. 10, according to anders Liberty Larly refurmed. Eccined to usued to brew 125 ff this each of fuel Jul " Vigat obles " 99 llis of frush Lineas. Commised tap gallent yands at Mougostones Of gaux To Fram Miredian. Curiges lb 18 Cloudy susettles Wenther. Nazy. Gentle, wiege & row 18. n & At 935 hundered as impected lieur at quaters, and afterwards called away and equipped all boats for distant Service and varal lactices. Authorities Me belong as lands team for the crume, blear hause at end of watch Fram Meridian with of all Musique lb. S. 3. Exercised some of the apprentices of Signals, Allawed land wanted Grunniers to Ward an deck for our half hour le leur haure end of What CA. A. Sechulu Jeracu of Molandy & hazy. Sunte Energy fracu. E. B. E. Al.
Summed heur Sawar taf gallent yands Chear hause

Trace of Moland gallent of Gisting of Change of Compatibles.

Jeracu of Moland gallent on Sealon, Range, Light to ghote in 2.

Jeracu E. B. Co. Co le lear hause cs. A. chulu Orene Ub S. A. Examined and found to be correct. TON Galloway Es

| | | | Reading | | WIND. | | | | BAROME | TER. | TEMI | PERAT | | State of | Forms of | f Clear 10ths. | le Sea. |
|-------|--------|---------|----------------------|----------------------|-----------------------------------|--------|-------|---------|-------------------|--------------|-------------------|-------------------|----------------------|--------------------------|---------------------|---------------------|----------------|
| Hour. | Knots. | Tenths. | of Patent Log. | by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. att'd. | Air, Dry Bulb. | Air, Wet Bulb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Sky, in 10 | State of the S |
| A. M. | | | | E. 16. C. | €. No. E | 3 | | | 29.98 | 64 | 64 | 60 | | S. c. g. | Com Trin | 01 | 28 |
| 2 | | | | " | " | 3 | | | 29.96 | 64 | 63 | 59 | | 8.0. | " | 0 | " |
| 3 | | | | | " | 4 | | | 29.93 | 64 | 63 | 59 | | J. c. 3. | " | 2 | 11 |
| 4 | | | | No. E. Ley E. | * | 4 | | | 29.91 | 64 | 63 | 59 | | 1, | 1 1/- | 2 | 11 |
| 5 | | | | 6.96.16. | " | 4 | | | 29.90 | 65 | 63 | 60 | | " | Red Unite | 2 | 11 |
| 6 | | | | | | 3 | | | 29.91 | 65 | 63 | 60 | | " | W uli | 5 | ," |
| 7 | | | | " | | 3 | | | 29.91 | 66 | 60 | 62 | | 1" | ~ 1 | 4 | 3 |
| 8 | | | | " | " | 2 | | | 29.91 | 66 | 65 | 61 | 100 | J. c. 3, d | Rus luich | // | 13 |
| 9 | | | | " | " | 2 | | | 29.91 | 66 | 67 | 63 | | " | Cer Gue | 2 | 2 |
| 10 | | | | " | , | 2 | | | 29.91 | | - | | | 1 | " | / | " |
| 11 | | 30 | | " | 1 | 2 | | | 29.90 | 69 | 61 | 64 | | 80.3 | . " | 3 | , |
| Noon. | | | | " | | 2 | | | 29.90 | | | | | ,, | , | 2 | " |
| | | | | | | | | | | | 100 | | | | | 1 | |

| Course and distance | made good since preceding noon by observation | ons, | knots. | | tenths. | |
|---------------------|---|-------------------|--------|------|------------|---|
| | (Latitude by D. R. | | 0 | , | " | * |
| | Longitude by D. R. | | | , | " | |
| Position at Noon: | Latitude by observations of ⊙ | | 0 | , | " | |
| | Longitude by chronometer from Forenoon | Observations of ⊙ | • | , | " | |
| | (Latitude by | | • | , | " | |
| Position at 8 a. m. | Longitude by | | • | , | " | |
| | (Latitude by | | • | , | " | |
| Position at 8 P. M. | | | • | , | " | |
| Current during the | | setting to the | | | | |
| | ompass by Amplitude o observed at Sunrise, s | | • | , | " | |
| -11-1 | mpass by Amplitude o observed at Sunset, | " | 0 | , | " | |
| | mpass by Azimuth ⊙ observed at | u | 0 | , | " | |
| | mpass by Azimuth ⊙ observed at | . " | • | , | " | |
| | ring the preceding 24 hours, | | | 3 | 50gallons. | |
| Water | during the preceding 24 hours, | | | | " | |
| Water remaining or | hand fit for use at Noon, | | | 110 | 10 " | |
| | ing the preceding 24 hours, | | 102 ° | 15 4 | 00 lbs. | |
| Coal remaining on | | | 102 " | 3 | 30 " | |
| | | | * * | | | |

| | | | | | | | | - | - |
|-------|--------------|--|---|----------|-------|----------|----------|----|---|
| P. M. | | | | | | 1 | | | 1 |
| 1 | 6 by 76. | € 76. E. | 2 | 29.88 69 | 68 66 | 2.0.3. | W him | 2 | 1 |
| 2 | " | ,, | 2 | 29.8670 | | ,0 | " | / | * |
| 3 | " | A STATE OF THE PARTY OF THE PAR | 2 | 29.8540 | | 0. c. z. | " | 0 | |
| 4 | | " | 2 | 29.8569 | 68 30 | , | " | 0 | |
| 5 | 16.8 Ly 6. | _ " | 2 | 29.8469 | 16865 | ,, | Cum | 0. | - |
| 6 | 16.8 Ly 6. | Variable | 1 | 29.8369 | | | | 0 | |
| 7 | 6.76.6. | C. n. C. | 2 | 29.8369 | | 0.0.0. | " | 0 | - |
| 8 | " " | " 1 | 2 | 298769 | 68 65 | | | 0 | • |
| 9 | 76. 6. Ly 6. | 16. 6 Ly. 6 | 3 | 29.8769 | | | " | 0 | - |
| 10 | " / | "/ | 3 | 79,8669 | | " | , | 0 | |
| 11 | | | 2 | 298669 | | | and wind | / | |
| Mid. | No. 6. | " | 2 | 29.869 | | | | 1 | * |
| | | | | | // | | | | |

Commander J. Dr. Jewell Thursday May 10 th , U. S. Navy, , 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Generally Clausy. Gentle to mascrate Liverze from 6: 1. E. lelis Law se Misightle 1/8. Fram of Justil 8 aux Moderale decreasing to light unege from 6 % E. Becured in Pay Dept 99h of frush west. By order of land garden Elaced F. Dunder, S. S. 1.0, wester Alups chape to Rober. believe to aware at end of Watch.

From & all lentil Mindian

Longe to Me E. At 930 mederal of quadras Elected during would him from & No. E. At 9.30 unspected at gunnters. Agercina fonder Devision at Stations. Received in Pay Departence 1. and the of tobacco. Clear Leau fe S. F. Leavin By ander of laws of afficer released & Dhieser from Senty Learne Le Ling sober. Exercise apprentices of fine atters crew as anny cade of Signals. Exuend general laur Unitial gresanies for vone Galfan Com Light ains from E. M. E. Class Liaw se Withtoggatt Curique les 17 es I Decum Fram 8 PM until Midnight X-cent lb. 1.78. li gentle Lirege from 16. E. Ly 6. blear line se MATT oggatt Examined and found to be correct. the alloway &

LOG of the United States Deamer Landar of Stabe Japan Rate,

| | | | | | Name and Address of the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner, | | | | | | _ | | | | | | |
|-------|--------|---------|----------------------|-------------------------------------|---|--------|-------|---------|-------------------|--------------|-------------------|-------------------|----------------------|-----------------------------|---------------------|---------------------------|--------------|
| | | | Reading | | WIND. | | | | BAROMI | ETER. | TEMI | ERAT | URE. | State of | Forms of | lear ths. | Sea. |
| Hour. | Knots. | Tenths. | of Patent Log. | OURSES STEERED by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. att'd. | Air, Dry Bulb. | Air, Wet Bulb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of C Sky, in 10t | State of the |
| A. M. | | | | 76. Ly E. | N. E. Ly E. | 2 | | 2 | 9.85 | 69 | 67 | 65 | | S.c. 3. | Cym Afr | 5 | 0 |
| 2 | | | | Mart | , / | 2 | | | 29.83 | 69 | 66 | 65 | | ,0 | " | 3 | " |
| 3 | | | | 16. m. Ly. m. | " | 1 | | | 29.83 | 69 | 66 | 65 | | O.C. 3. | Come & Rivel | 0 | " |
| 4 | | | | Went | " | 1 | | | 29.83 | 69 | 66 | 65 | | ,0 | " | 0 | " |
| 5 | | | | Mr. Ly. No. | m. 16. m. | / | | | 29.82 | 68 | 68 | 65 | | " | in or | 0 | " |
| 6 | | | | D. W. Ly M. | loalu | 0 | | | 29.81 | | | | | " | , | 0 | " |
| 7 | | | | " | 11 | 0 | | | 29.80 | 68 | 66 | 65 | | " | 71 | 0 | " |
| 8 | | | | M.D. M. | D. m. | 1 | | | 29.80 | 68 | 64 | 65 | | ,, | | 0 | " |
| 9 | | | | much | Much | / | | | 29.80 | 69 | 67. | 65 | | 0.0.0. | ". | 0 | " |
| 10 | | | | M. Ly. 16. | " | / | | | 29.79 | 69 | 67 | 65 | | 0.0. 2. | " | 0 | " |
| 11 | | | | D.M. Ly D. | D. D. M. | 2 | | | 29.77 | | | | | , 0 | Cam Rhi | 0 | 11 |
| Noon. | | | | 2.M. | " | 2 | | | 29.76 | | | | | S. c. 3. | ,, | 1 | " |
| | | | | | | | | | | | | | | | | | 1 |

| Course and distance | made good since preceding noon by observations, | knots. | tenths. | |
|---------------------|--|--------|--------------|--|
| | (Latitude by D. R. | 0 | , ,, | |
| | Longitude by D. R. | • | , ,, | |
| Position at Noon: | Latitude by observations of ⊙ | 0 | , ,, | |
| | Longitude by chronometer from Forenoon Observations of ⊙ | 0 | , ,, | |
| | (Latitude by | | , ,, | |
| Position at 8 a. m. | Longitude by | • | , .,, | |
| | (Latitude by | • | , ,, | |
| Position at 8 P. M. | Longitude by | • | , ,, | |
| Current during the | time, knots tenths per hour, setting to the | | | |
| Variation of the Co | ompass by Amplitude ⊙ observed at Sunrise, ship's head | 0 | , " | |
| Variation of the Co | ompass by Amplitude ⊙ observed at Sunset, " | • | , ,, | |
| Variation of the Co | ompass by Azimuth ⊙ observed at " | | , \ " | |
| Variation of the Co | ompass by Azimuth ⊙ observed at " | 0 | , " | |
| Water expended du | ring the preceding 24 hours, | 1 | 35 Ogallons. | |
| Water | during the preceding 24 hours, | | " | |
| Water remaining or | n hand fit for use at Noon, | | 450 " | |
| Coal consumed duri | ing the preceding 24 hours, | 1/1 | ons 500 lbs. | |
| Coal remaining on l | hand at Noon, | 100 | "2070 " | |
| | | | / | |

| P. M. | | | 1 | | , | 1 |
|-------|-------------------------|-----------------|---------|---------|---|----|
| 1 | A. m. Ly. m. D. D. m. | 29.75 70 67 65 | S.c. 3. | Friends | 1 | 10 |
| 2 | D. m. " | 29.75 70 67 65 | | " | 2 | - |
| 3 | m Ly D. D. Ly m. | 29.72 71 71 67 | | " | | |
| 4 | A. M. Ly D. D. M. Ly D. | 29.71 71 7267 | 4 | " | 3 | - |
| 5 | m. Ly. D. m. D. m. | 29.70 727/67 | ,, | " | 3 | |
| 6 | Wint " | 29.70727161 | " | , | 2 | * |
| 7 | D. mily D. " | 29.69696865 | | " | 1 | |
| 8 | m. 76. m. " | 29.69696865 | " | " | 1 | - |
| 9 | M. J. M. Much | 29.69 70 67 64 | 0,0,7, | am t | 0 | - |
| 10 | M. Ly. M. M. M. M. | 29.68 70 68 63 | 0.0.3. | " | 0 | - |
| 11 | m. 46 m. " | 29.68 40 66 62 | v.c. 3. | " | 3 | " |
| Mid. | m Ly M. " | 29.69. 70 66 62 | v.e. z. | | 2 | - |
| | | | | | | |

under the command of Sommander J. J. Sewell Trivay May 11 55 , U. S. Navy, , 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Commence Estentel of all Partly clear first fant. Overcast afterward's Clando ai. am., str. Esteniaber. Light Energe to airo from 76. E. Ly. E. Char Lawre Thou of linkil of all Curing around Lorizen. Calm & light and from D. m. to m. M. M. P. ... Craw of tap gallent as Ray at yand ... Reed in Pay Defartment for wine to crew 125 of each fresh book & Vegahable & galle fresh book & Vegahable & galle cs. Le cutte Fram 8 and butil Meridian Dient la. S. A hour. Light ains & ineige from Went to D. D. M. At 925 impected criw at quarter and exercised Les Div, at daigle sheer 2 us Div, at machine genes, Haygter Div at revolvers & Forder Die gh Shakiano, Marines Layonet extercise. At 94%. Feat to fire quarters of trade out & races ions for abandoning ship. D'abennis Domper. Div. Cleaned bilger. Deut Fourding afficer to the ship At Francis Which Came in at Joelack. Tegan loading ship, received 6 lans authricht Coal to your in Law se good te on top. Began destilling Maltoggatt. Light lineage from D. D. m to Dom. Combing this, having received at end of which I town. I have the summer and summer of which have a from at manual of anim & apprentices of Ind Culter at lignals. Corners in Leaves of Lucy wals. wals. Le rans in haurre at end of watch, fact chain on top. Duchilling anuslow. Frame of lentil 8. Pors. Jusign. ll. S. 78. M. s. m. Doraped & aicis sknong Jack to Savito. Fruncies, Carring Received in. vall 48 1000 lous. At Amont Dent Sown rayal yards, Clear haw se Duchilling Hozy, bland, am & unil, Light ains from Must m. 76 m. Clear haure. Dustilling Marigu le S/18 Examined and found to be correct. Contalloway & Navigator.

| | | | Reading | govpara eguepun | WIND. | | | | BAROMETEI | R. TEM | PERA' | | State of | Forms of | Hear the | e Sea. |
|-------|--------|---------|----------------------|----------------------|-----------------------------------|--------|-------|---------|-------------------|-------------------|-------------------|----------------------|-----------------------------|---------------------|--------------------------------|------------------|
| Hour. | Knots. | Tenths. | of Patent Log. | by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Air, Dry Bulb. | Air, Wet Bulb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Clea Sky, in 10ths | State of the Sea |
| 1. M. | | | | m. Ly s. | Calen | 0 | | | 29.65 6 | 9 65 | 62 | | Lc. 3. l | Come muil | 3 | 6 |
| 2 | | | | M. Ly No. | Mich | 1 | | | 29.6466 | 66 | 62 | | L. c. 3. | " | 6 | " |
| 3 | | | | ,, | " | 2 | | | 29.6269 | 766 | 62 | | , | ., | 3 | " |
| 4 | | | | " | " 1 | 3 | | | 29.6268 | | | | 0 .0. 7. | " | 0 | |
| 5 | | 1 | | " 1 | No. m. Ly n | 75-7 | ' | | 29.61.68 | | | | S.c. 9 | ar Com | 2 | ", |
| 6 | | | | 16. m. Ley M. | m. 76. m. | 5-6 | | | 29.6960 | 9 60 | 59 | 1 | " | " | 6 | " |
| 7 | | | | mles | ", | 5-4 | - | | 297460 | 8 63 | 54 | - | " | Com | 7 | " |
| 8 | | | | m. 16. m. | M. Ley No. | 5-7 | | | 29.76 64 | | | | " | " | 18 | " |
| 9 | | | | " | 76 m.byr | 5-6 | + | | 29.7964 | 159 | 52 | | " | " | 8 | " |
| 10 | | | | 76. 76. M | " | J-6 | | | 29.796 | \$ 60 | 53 | | " | " | 7 | " |
| 11 | | | | / | ,, | 3-6 | | | 29.80 63 | 1 61 | 53 | | , | ., | 7 | " |
| loon. | | | | Much | m. 76. m. | 3-4 | - | | 29.80 69 | | | / | " | , | 7 | " |

| Course and distance | made good since preceding noon by observations, | kı | nots. | tenths. | |
|----------------------|--|----|--------|-----------|----|
| | (Latitude by D. R. | | 0 , | " | |
| | Longitude by D. R. | | 0 , | " | |
| Position at Noon: | Latitude by observations of ⊙ | | · , | " | |
| | Longitude by chronometer from Forenoon Observations of ⊙ | | 0 , | " | |
| | (Latitude by | | 0 , | " | |
| Position at 8 a. m. | Longitude by | | 0 , | " | |
| | (Latitude by | | 0 , | , ,, | |
| Position at 8 P. M. | Longitude by | | 0 , | , ,, | |
| Current during the | time, knots tenths per hour, setting to the | | | | |
| Variation of the Co | mpass by Amplitude ⊙ observed at Sunrise, ship's head | | 0 1 | , ,, | |
| Variation of the Co | mpass by Amplitude ⊙ observed at Sunset, " | | 0 / | " | |
| Variation of the Co | mpass by Azimuth ⊙ observed at " | | 0 / | , ,, | |
| Variation of the Co | mpass by Azimuth ⊙ observed at " | | 0 / | , ,, | |
| Water expended dur | ring the preceding 24 hours, | | 18 | o ogallon | 8. |
| 11. | Lilled during the preceding 24 hours, | | 1,6 | 00 " | |
| Water remaining on | hand fit for use at Noon, | | 2.2 | ao " | |
| Coal consumed during | ng the preceding 24 hours, | 2 | tons A | 420 lbs | 3. |
| Coal remaining on h | nand at Noon, | 14 | 6 " 1 | | |
| | | | | | |

| P. M. | 1 | | | | , | | 1 | |
|-------|-----------------------------------|----------|----|----------------|----------|------|----|----|
| 1 | M. Ly D. | M. D. M. | 3 | 29.8266 6504 | 2.0.3.9. | aram | 6 | 0 |
| 2 | m. D. m. | | 3 | 29.81 66 64 55 | "0. | " | 6 | " |
| 3 | A.M. Ey M. | " " | 3 | 29.80 64 64 56 | " | | 8 | |
| 4 | M. Sey So. | " | 3 | 29.80 64 65 56 | . " | | 8 | " |
| 5 | , | " | 3 | 29.81696658 | 1. c. y. | - " | 8 | " |
| 6 | "1 | " | 2 | 29.84686658 | " | " | 8 | 1, |
| 7 | M. Ley. 76. | D. M. | / | 29.84 67 65-59 | " | " | 10 | ., |
| 8 | ", | "/ | / | 29.83 66 63 58 | 11 | 4 | 16 | ., |
| 9 | 2. S. M. No. M. M. M. M. M. | Douth | / | 29.84 66 62 54 | J. | none | 10 | 1, |
| 10 | no m. Ly M | Minh | / | 29.8966 62 50- | " | " | | |
| 11 | m. 16. m. | , , | / | 29.906660 55 | | 4 | 10 | 1 |
| Mid. | Muss | - | / | 29.906560 55 | , | | | |
| |) | | 11 | | | | 1 | 1 |

Crammander J. J. Lewell, under the command of , U. S. Navy, Dahunday May 12 th , 1888 . RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Commences a luntil of aces Low Clausetter weather, balow first hour, Then light ains increasing last hour to gentle bruge from Much. Dutilling, believe houre From of lutil & aux last half. Very fruit eguales to gentle herege from 16. m. by, m. to m. by, M. Recived far varies his Pay Department 122 3/4 the each of frush bed at Vegatables & 99 lbs of frush bed at Such Such and S From & aux lintil Meridian flus aux. Claude Cum & str Gentle to shiff theize in light squalls from M. m. to M. M. hired Isdding Served out the shifted clean ham mocks. Celeaned M. Felggerald, Color, the live for which he was confined having expired. Char how so. Dustelling Meridian lutil of PM lingh. Wayy. Gentle Gercege from Fram Meridian butil of PMS M. D. M. At. 305. 26. D. a Branklya, Was Church 14. Shew wered. At 310. Jund E Come 44 Browslyn answered. It 350 The U. S. Branklyn. lame to anchor in the Lambor. Clear Leawise, Ducheleing (ram of lutil & 1977. Suseque G. S. 78. Generally Clear Ling Let & pleasant Nagy, blands ai Como Light to gentle breeze from M. D. M. Yet Jank, Yalling to light ains from is M. Derved on the fallowing named men. Capies of specifications of change preferred against them by Dominantes in Chaif, N. J. Linke, 10. A, M. J. Mo-tuden S. H. 1.C. J. C. Derbais, 1.C. A. W. J. Drapley, M. M. M. M. Leander & French Filog slip Duranne Come in le lear Lawise Destilling row & Por lentil Miding US Clusique 16. d. 18. It 11 as mand reser was came & an clared in the harbar blior House Examined and found to be correct.

LOG of the United States Descrip Lang 3, Rate,
Maared in the harbor of Kobe Japan

| | | | Reading | | WIND. | | | | BAROMI | ETER. | TEM | PERAT | URE. | State of | Forms of | lear ths. | e Sea. |
|------------|--------|---------|----------------------|---|-----------------------------------|--------|-------|---------|-------------------|--------------|-------------------|-------------------|----------------------|-----------------------------|---------------------|--------------------------------|----------------|
| Hour. | Knots. | Tenths. | of Patent Log. | COURSES STEERED by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. att'd. | Air, Dry Bulb. | Air, Wet Bulb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Clea Sky, in 10ths | State of the S |
| A. M. 1 | | | | W. Ly 16. | m. Ley M. | 1 | | | 29.91 | 65 | 61 | 66 | | S.e. 3. | ann | 8 | 0 |
| 2 | | | | much | m Ley D. | 2 | | | 29.91 | 64 | 60 | 63 | | , 0 | " | 8 | - |
| 3 | | | | " | " | / | | | 29.91 | 64 | 59 | 64 | | " | " | 8 | |
| 4 | | | | A. m. Ly m | " " | 2 | | | 29.93 | 63 | 39 | 54 | | J. c. | " | 8 | - |
| 5 | | | | A.m. | A. M. | / | | | 29.94 | 63 | 59 | 54 | | f. c. 3. | ai aun | 6 | |
| 6 | | | | " 1 | " | / | | | 29.97 | | | | | " | and willy | 14 | - |
| 7 | | | | D. M. Ly D. | " | / | | | 30,00 | 63 | 60 | 56 | | " | " | 4 | - |
| 8 | | | | D. Ly M. | " | / | | | 30.01 | 63 | 61 | 58 | | " | " | 2 | " |
| 9 | | | | 2.6. | D. D. E. | / | | | 30,00 | 1 1 | | 08 | | " | " | 1 | - |
| 10 | | | | " | " | 1 | | | 30.01 | 64 | 62 | 59 | | , | " | 1 | 1 |
| 11 | | | | D. E. Ly. E. | Daut | 2 | | | 20.02 | | | | | ,, | " | 1 | |
| Noon. | | | | " 1" | " " | 2 | | | 30.03 | | | | | , | | 1 | |
| | | | | | | | | | | | | | | | | | |

| | | | - | - | | - | |
|---------------------|--|-------|----------|--------|-----------|---|--|
| Course and distance | e made good since preceding noon by observations, | | knots. | | tenths. | | |
| | (Latitude by D. R. | | 0 | , | " | | |
| | Longitude by D. R. | | • | , | " | | |
| Position at Noon: | Latitude by observations of ⊙ | | 0 | , | " | | |
| | Longitude by chronometer from Forenoon Observations | of ⊙ | 0 | , | " | | |
| | (Latitude by | | 0 | , | " | | |
| Position at 8 a. m. | Longitude by | | 0 | , | " | | |
| | (Latitude by | | 0 | , | " | | |
| Position at 8 P. M | Longitude by | | 0 | , | " | | |
| Current during the | time, knots tenths per hour, setting to the | | | | | | |
| Variation of the C | ompass by Amplitude o observed at Sunrise, ship's head | | 0 | , | " | | |
| Variation of the Co | ompass by Amplitude © observed at Sunset, " | | 0 | , | " | | |
| Variation of the Co | ompass by Azimuth ⊙ observed at " | | 0 | , | " | | |
| Variation of the Co | ompass by Azimuth o observed at " | | • | , | " | | |
| Water expended du | aring the preceding 24 hours, | | | 30 | Ogallons. | | |
| Water Chis | Lilecturing the preceding 24 hours, | | /,- | 4a | 0 " | | |
| Water remaining of | n hand fit for use at Noon, | | 2' | Ra | 0 " | | |
| Coal consumed dur | ing the preceding 24 hours, | · · | 2" 1 tor | 18 9 % | O lbs. | | |
| Coal remaining on | hand at Noon, | * / | 45 " | 15 | 10 " | | |
| | | - All | 1 | | | | |

| P. M. | | , | | | 1 | | | |
|-------|----------------|---------|---|----------------|---------|----------|--------------|----|
| 1 | D. m. Ly. D. | Dart | 2 | 30.01656560 | G.c. 1. | and stat | 6 | 10 |
| 2 | D. M. Ly. D. | " | 3 | 29,9966 65 59 | | " | | " |
| 3 | | " | 2 | 29.98686709 | | " | 9 | " |
| 4 | Dr. D. 00. | D. M. | / | 29.98 69 69 60 | " | " | 9 | 4 |
| 5 | D.M. Ly M. | m. D.m. | / | 29,49 % % 60 | " | ai am | 8 | 4 |
| 6 | // | 4 11 | 0 | 29.99696961 | " | an cum | 6 | " |
| 7 | Manth | Caleu | 0 | 30.00696861 | " | | 0 | " |
| 8 | No. E. Ley. 6. | " | 0 | 29.99.69 68 61 | | " | and the same | " |
| 9 | 6. no. 16. | " | 0 | 30.04696661 | " | " | | " |
| 10 | 6. n. 16. | " | 0 | 30.04686661 | " | 4 | 8 | " |
| 11 | m.76.m. | | 0 | 500468 6661 | " | " | 8 | 1 |
| Mid. | " | | 0 | 50,0 468 66 61 | | " | 10 | - |
| | | | | | | | | - |

Dommander J. D! Jewell , U. S. Navy, under the command of Aunday May 13th , 1888 . RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Commences Es lentil of and Dlapped Scipilling as have fine sat 12 3. At laures being fuce. Course in hawse form Chain on life

CAR Selection

Line and Compile 8 acts

Changes being fuce. Course

Change for chain on life

Changes being fuce. Course

Change for chain on life

Change for chain on life

Change for chain and life

Change for chain and life

Change for chain and change the course of the inemed to crew 99 the of from head. Course in haure at end of what che Than 8 all but il Meridian Suriger U. S. A. D. D. E. first half, shifting to light tireege from Dant last last hack. Its 930 lumbered and inspected brew at quarters. It 930 lunde luminoral of crim exon, brans in hawse at end of watch part chain on top bommanding officis Turence Visited This ship. Clark Lawre Troud of leutil & PM Quer land, Light vain & row Must first ball land, The bound of afficies of the French war of war Parswal pair an afficient visit to this Palif. Chor hawse France & PM lentiel Midnight le Curiquelle de 18 Comme Xing Cb. J. 98. Examined and found to be correct. En Galloway Sient & Navigator.

| | | | Reading | | WIND. | | | | BAROME | TER. | TEMI | ERAT | URE. | State of | Forms of | Sear ths. | Sea. |
|-----------|--------|---------|----------------------|--------------------------------------|-----------------------------------|--------|-------|---------|-------------------|--------------|-------------------|-------------------|----------------------|-----------------------------|---------------------|----------------------------------|----------------|
| Hour. | Knots. | Tenths. | of Patent Log. | COURSES STEERED by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. att'd. | Air, Dry Bulb. | Air, Wet Bulb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Clear Sky, in 10ths. | State of the S |
| A. M. | | | | 16 m. | Calcu | 0 | | | 2 1 | 14 | 11 | ,, | | 8.2 | n | 10 | 1 |
| 2 | | | | 16 111. | " unce | 0 | | | 30.03 | / | / | | | J. g. | None | 10 | 4 |
| 3 | | | | No. M. Ley M | | 0 | | | 30.02 | | | | | " | " | 10 | - |
| 4 | | | | m Ly 46. | " | 0 | | | 30.02 | 66 | 62 | 09 | | ; | " | 10 | |
| 5 | | | | 16!m. | No. E. | 1 | | | 30,05 | | | | | L. e. z. | and slig | 16 | |
| 6 | | | | 16. E. Ly 16. | " | / | | | 30,05 | | | / | | " | " | 5 | |
| 7 | | | | 76.61. | " | 1 | | | 30.05 | | | | | " | " | 5 | |
| 8 | | | | 16. 26. 16. | " | 1 | | | 90,00 | | / | | | " | " | 5 | - |
| 9 | | | | /Ench | /End | 1 | | | 50.00 | | | | | " | " | 5 | |
| 10 | | | | D. S. C. | Jo. M. | / | | | 30.03 | - | - | - | | " | " | 11 | - |
| 11 No. | | | | Jam; | " | 1 | | | 30.04 | 41 | 68 | 13 | | " | " | 1/ | |
| Noon. | | | | D. M Ly D. | " | / | | | 009 | // | 1 | 65 | | " | " | 4 | |

| | Course and distance | made good since preceding noon by observations, | | knots. | | tenths. | | |
|----|----------------------|--|-----|--------|-------|---------------|--|--|
| | | (Latitude by D. R. | | 0 | , | " | | |
| | | Longitude by D. R. | | 0 | , | " | | |
| | Position at Noon: | Latitude by observations of © | | 0 | , | " | | |
| | | Longitude by chronometer from Forenoon Observations of ⊙ | | • | , | " | | |
| | | (Latitude by | | • | , | " | | |
| | Position at 8 a. m. | Longitude by | | 0 | , | " | | |
| | | (Latitude by | | 0 | , | " | | |
| | Position at 8 P. M. | Longitude by | | 0 | , | " | | |
| | Current during the | time, knots tenths per hour, setting to the | 1 | | | | | |
| | Variation of the Con | mpass by Amplitude ⊙ observed at Sunrise, ship's head | | 0 | , | " | | |
| | Variation of the Con | npass by Amplitude ⊙ observed at Sunset, | | • | , | " | | |
| | Variation of the Con | npass by Azimuth ⊙ observed at " | | 0 | , | " | | |
| | Variation of the Cor | npass by Azimuth ⊙ observed at " | | 0 | , | " | | |
| | Water expended dur | ing the preceding 24 hours, | | 6 | 3- | 6 gallons. | | |
| ** | Water | during the preceding 24 hours, | | | | " | | |
| | Water remaining on | hand fit for use at Noon, | | 24 | 10 | -0 " | | |
| | Coal consumed durin | ng the preceding 24 hours, | | tor | ns 44 | lbs. | | |
| | Coal remaining on h | and at Noon, | 14 | 15 " | . / | -0 " -00 lbs. | | |
| | | | , , | | // | | | |
| | | | | | | | | |

| P. M. | 1 | , | | | 1 | | , |
|-------|-------------|------------|---|-----------------|----------|-------------------------|-----|
| 1 | D.M. Ley D. | D.m. Ly M. | 2 | 30.03 /2 7/2 66 | S. c. z. | di Gun | 4,9 |
| 2 | D.Mr. | m.b.m. | 2 | 30.03 74 72 66 | " | " | |
| 3 | " | " | 2 | 30.01 74 72 66 | ,, | " | 3 |
| 4 | " | " | 2 | Jago 73 71 66 | " | " | 2 |
| 5 | M.D. M. | " | 2 | 29.91 72 71 66 | ,, | " | 0 |
| 6 | | | 2 | 29.9571 70 66 | 0.0. | | 0 |
| 7 | Mr. M. M. | Mush | 2 | 29.947/69 65 | 5.0.3 | " | 4 |
| 8 | | | / | 29.98 40 69 66 | " | " | 1 |
| 9 | D. Ming D. | Calu | 0 | 29.99 70 70 68 | | the same of the same of | 3 |
| 10 | Vd.6 ley 2. | " | 0 | 29.99.70 70 67 | | ann | 6 |
| 11 | Sty & | 76. m. | / | 29.9870 70 67 | | " | 7 |
| Mid. | DM. Luga. | Calu | 0 | 2998766967 | ,, | " | 7. |

Communication D. D. Lewell Manday May 14th , U. S. Navy, , 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Danien cuces Es but il of all Glassant, balen bless have Fram of lentil & all Curique lo 18. It sao land sais to a bowline. Recured in Pay sept for insue to crew 49. Ils of Frend & 125/4 each of fruit book & Vegatables. At for the French wan of war Primarquet Came has N. M. S. Leander lift to Georbor bless Lawse Higoomico) Fram & aux lentil Meridian Caryull S. & Generally Claudy. Nazy. Manue, Light ain from Each Then D. M. At 930 exercised at general quarters. At 1000 a Rennal Round Marked but on Goard for the trial of of Tangley, Om, by others. By order of bound g officer placed & Bethko, S.A.I.C. in Solitary Confirmence for three days one weed to Water, for insolence to the officer of the Seek. It 129 Branklyn made breparatory Rigual 4826. W Then 4826. Furled Sail. At 113. Laurt adjourned butil 1 for today. Examined magazine and Sull room flood cocks. J. N. Newell S.A. C. and Albert Bergman reported Their levius of entire ment experied today. Grass in house sharbard chain on lot. cs. Flechtitu Recin of an afficial Vinit from Count of Officer of Primanguet Lank ad-Journes lintel 10 and of the 15th Referenced & on prisoners brown in Law se At bo clean on top MIST toggatt Hrow of lewhil & PM. Senge from Must to M. D. M. Leander" Come in Es auchoris. A. F. Sechutu Jrom no. m. Commerce land Chair and balon and high hairs Examined and found to be correct. En Galloway & Wavigator.

| | | | | | | - | _ | _ | | _ | _ | | _ | | | | |
|-------|--------|---------|----------------------|----------------------|-----------------------------------|--------|-------|---------|-------------------|-------|-------------------|-------------------|----------------------|-----------------------------|---------------------|------------------------------|--------------|
| | Readir | | Reading | | WIND, | | | | BAROMETER. | | TEMPERATURE. | | URE. | State of | Forms of | Hear ths. | e Sea- |
| Hour. | Knots. | Tenths. | of Patent Log. | by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. | Air, Dry Bulb. | Air, Wet Bulb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Cle Sky, in 10th | State of the |
| A. M. | | | | 16. m. | Calin | 0 | | | 28.98. | 166 | 64 | 65 | | J. c. 2. | Noue | 10 | 5 |
| 2 | | | | m. 76. m. | , | 0 | | | 29.97 | 66 | 65 | 63 | | | " | 10 | " |
| 3 | | | | 16. m. Ly. m. | " | 0 | | | 1 // | 1, . | 64 | 63 | | J. e. 4. | " | 10 | " |
| 4 | | | | m. 76. m. | " | 0 | | | 29.97 | 65 | 84 | 63 | | 1" | , | 10 | 11 |
| 5 | | | | M. Ly 16. | | 0 | | | 29.97 | 64 | 64 | 62 | | L.c. 2. 7. | ar Com | 5 | " |
| 6 | | | | 76 m. | ,, | 0 | | | 29.98 | 64 | 64 | 62 | | " | * | 5 | |
| 7 | | | | 16.76.€. | | 0 | | | 20,00 | 66 | 60 | 63 | | " | " | 0 | " |
| 8 | | | | 76. E. | " | 0 | | | 30.01 | 66 | 65 | 63 | | ,, | " | 0 | " |
| 9 | | | | D. D. E. | | 0 | | | 30,010 | 66 | 60 | 63 | | " | , | 4 | " |
| 10 | | | | Q. E. | Sweeth | / | | | 30,0/ | 64 | 66 | 64 | | ,,, | " | 4 | " |
| 11 | | | | A. A. E. | D. D. E. | / | | | 30.02 | | | 65 | | ", | , | 4 | " |
| Noon. | | | | D. M. Ly. D. | Dauts | 1 | | | 30.0/ | 72 | 68 | 66 | | " | " | 101 | " |

| Course and distan | nce made good since preceding noon by observations, | knots. | | tenths. | | | | |
|--------------------|--|---|-------|----------|--|--|--|--|
| | (Latitude by D. R. | c | , | " | | | | |
| | Longitude by D. R. | • | , | " | | | | |
| Position at Noon | Latitude by observations of ⊙ | • | , | " | | | | |
| | Longitude by chronometer from Forenoon Observations of ⊙ | • | , | " | | | | |
| D 11 | (Latitude by | ٩ | , | " | | | | |
| Position at 8 a. m | Longitude by | 0 | , | " | | | | |
| | (Latitude by | | , | " | | | | |
| Position at 8 P. M | M. (Longitude by | • | , | " | | | | |
| Current during th | he time, knots tenths per hour, setting to the | | | | | | | |
| Variation of the | Compass by Amplitude ⊙ observed at Sunrise, ship's head | 0 | , | " | | | | |
| Variation of the | Compass by Amplitude ⊙ observed at Sunset, " | • | , | " | | | | |
| Variation of the | Compass by Azimuth ⊙ observed at " | 0 | , | " | | | | |
| Variation of the | Compass by Azimuth ⊙ observed at " | 0 | , | " | | | | |
| Water expended | during the preceding 24 hours, | | ga- | gallons. | | | | |
| Water | during the preceding 24 hours, | | | " | | | | |
| Water remaining | on hand fit for use at Noon, | 2,1 | K | 0 ". | | | | |
| Coal consumed du | uring the preceding 24 hours, | to | ns 4/ | vo lbs. | | | | |
| Coal remaining or | n hand at Noon, | 2,120 " tons 400 lbs. 145 " 710 " | | | | | | |
| | | | 1 | | | | | |

| P. M. | | | | | | | 1 | | , | 1 |
|-------|---------------|-----------|-----|-----------|-----|----|----------|--------|----|----|
| 1 | D.D.M. | Dauth | 2 | 29.91 7/2 | 70 | 67 | L. c. 3. | an aun | 4 | 2 |
| 2 | A. M. Ley. M. | | 2 | 29.95 75 | 1/2 | 67 | " | " | 4 | " |
| 3 | D.M. | D. D. M. | 2 | 29.9874 | 1/2 | 66 | " | " | if | - |
| 4 | " 1 | " | 2 | 29.94/76 | 1/2 | 65 | ,, | " | 4 | " |
| 5 | A.M. Ly D. | 2. m. | 2 | 29.9474 | | | " | " | 5 | * |
| 6 | m.s.m. | m. s. m. | / | 29.94 74 | / | | " | " | 6 | " |
| 7 | m Ly. D. | " | / | 29.95 1/2 | / | | " | " | 0 | ** |
| 8 | M. Ley. 76. | " | / | 29.90 42 | 1/0 | 65 | 40 | " | 8 | - |
| 9 | 20. m. | m. 16. m. | / | 29.95% | 10 | 60 | . 4. | none | 16 | |
| 10 | West | 16. M. | / | 29.95-69 | 1 , | | " | " | 16 | " |
| 11 | M. Ly 16. | Mech | / | 29.90 69 | 1 | 1 | " | " | 10 | * |
| Mid. | N.76. M. | m. 76. m. | 1 | 29.9569 | 1 | - | " | , | 10 | - |
| | | | 100 | | | | | | | - |

under the command of Danuau des J. D. Jewell, Juns day May 10 to , U. S. Navy, , 1888. . RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Commences and linking factor fact, balu lelear Lawse ats lud of watch. Homestone. Fram of hubil & all landy and Jaggy. Recurs for Crew 99ths of Just treas, Clear Leawse From I and lentil Beridian Lient lb. 1. B. Senerally claudy & Warm whith Joy, accamion ally lifting balen and light aims from Dant and S. S. E. At 930 impected Crew at quantum and the expected the was sino, cartillery a infantry Campany's pursuant to adjournment and at 1125 look a reces until 1 fee. The bound official disit to N. M. D. Lean Set of the French Concette Primanques and Official disit to N. M. D. Lean Set of the French Concette Primanques le mors in Laure Atanbart Chain on tof the 10 am Sen er al Paure Martial Mux Frace Meridian leut il of M8 Cury 8. 16 1. 8.

Partly clear, Ting let & pleasant. Wayy. Claudo ai ann & strat Light Terego from South D. D. M. At I oclock Several Round Manheal met of Junt ed trial of mr. J. M. Fadden, S.A.I.C. At 150 Paurt adjan med but il 19 que illedus. Jay May 1675 At. 215: N. M. S. Raceles left the Econders Efere ind apprentices of Jud Cuter at Riguels to Srilled Germito at maninal of anus. Conses in Leaw'se Curiquelle. S. R. Am. brans in hawse at end of Watch Lusiguille J. D. Hen et set. Light ains from ment to n. No. m. Elbon in Leaves at end of Watch May 16.1.98. Examined and found to be correct. Engalloway & Navigator.

LOG of the United States Aleacues Essy 3nd, Rate, Maared in the Limbar of Kobe Japan

| | | | Reading | | WIND, | | | | BAROME | TER. | TEMI | PERAT | URE. | State of | Forms of | f Clear 10ths. | o Sea. |
|-------|--------|---------|----------------------|----------------------|-----------------------------------|--------|-------|---------|-------------------|--------------|-------------------|-------------------|----------------------|-----------------------------|---------------------|--------------------------|--------------|
| Hour. | Knots. | Tenths. | of Patent Log. | by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. att'd. | Air, Dry Bulb. | Air, Wet Balb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of C Sky, in 10 | State of the |
| A. M. | | | | m. 76. m. | m. 76 m. | 1 | | | 20 0 | 118 | 10 | 1- | | 8.3. | None | 10 | 0 |
| 1 2 | | | | 11.76.M. | 11. 16.111. | 1 | | | 29.94 | 69 | 68 | 64 | | 7. | " Goul | 10 | |
| 3 | | | | | " | / | | | 29.42 | 68 | 64 | 64 | | 1" | ., | 10 | |
| 4 | | | | 76. E. | E. Ly. 76 | 1 | | | 2991 | , | | 1. | | 2.0. 3. | aliah ai Cum | 8 | - |
| 5 | | | | 16. Ly 16. | | 1 | | | 29.91 | | | | | " | and minh | 7 | |
| 7 | | | | 6.16.76. | D. E. Ley 6. | 1 | | | 29.88 | | | | | " | 1 | 1 | |
| 8 | | | | € 76 € | , , | 1 | | | 29.86 | 66 | 64 | 61 | | 0.0.3. | 2" | 0 | |
| 9 | | | | /Ench | Æ. 76. €. | 1 | | | 29.84 | | | | | " | neit | 0 | - |
| 10 | | | | " | n. E. | 2 | | | 29.81 | 1 | - | - | | c.e.d | " | 0 | |
| Noon. | | | | E. Ley E. | , , | 3 | | | 29.76 | - | - | | / | 00.4. | " | 0 | - |
| | | | | 1 | | | | | | | 1 | | | | 1 | | |

| Course and distance | made good since preceding noon by observations, | knots. | tenths. | |
|---------------------|--|--------|----------------------------|--|
| | (Latitude by D. R. | 0 | , ,, | |
| | Longitude by D. R. | • | , " | |
| Position at Noon: | Latitude by observations of ⊙ | • | , " | |
| | Longitude by chronometer from Forenoon Observations of ⊙ | | , " | |
| | (Latitude by | • | , " | |
| Position at 8 a. m. | Longitude by | • | , " | |
| | (Latitude by | 0 | , ,, | |
| Position at 8 P. M. | Longitude by | • | , ,, | |
| Current during the | time, knots tenths per hour, setting to the | | | |
| Variation of the Co | ompass by Amplitude o observed at Sunrise, ship's head | • | , ,, | |
| Variation of the Co | mpass by Amplitude ⊙ observed at Sunset, " | 0 | , ,, | |
| Variation of the Co | mpass by Azimuth ⊙ observed at " | • | , " | |
| Variation of the Co | mpass by Azimuth ⊙ observed at " | • | , " | |
| Water expended du | ring the preceding 24 hours, | | gallons. | |
| Water | during the preceding 24 hours, | | 300" | |
| Water remaining or | n hand fit for use at Noon, | /: | 75-0" | |
| Coal consumed duri | ing the preceding 24 hours, | tens | 75-0" 400 lbs. 310 " | |
| Coal remaining on l | hand at Noon, | 145 " | 310 " | |
| | | | | |

| P. M. | 1 | | 2 | | | - | | | | |
|-------|----------------|----------|-----|----------|-----|----|-------|------|---|----|
| 1 | 6. Ly D. | 6.16.16. | 2 | 29.74 70 | 69 | 66 | 0.0,7 | nine | 0 | 2 |
| 2 | 6.76.6. | | 2 | 29.70 70 | 69 | 66 | " | | 0 | ** |
| 3 | No. E. Ly . E. | + | 2 | 29.60 70 | | | ,, | | 0 | - |
| 4 | 76. 6. | * | 2 | 1963 70 | | | | " | 0 | |
| 5 | 6. 16. 6. | | 2 | 24,60 72 | | | " | " | 0 | ** |
| 6 | " | " | 2 | 29.0873 | | | " | " | 0 | 1. |
| 7 | 16.26.6 | | 2 | 2955 7/ | | | " | 11 | 0 | 1. |
| 8 | € 76. 6. | 1 | 218 | 29.54 70 | 70 | 68 | " | " | 0 | N. |
| 9 | 16. Ly M. | " | / | 29.52 46 | | | " | " | 0 | 8 |
| 10 | mich | | / | 29.50 70 | 40 | 69 | " | " | 0 | 15 |
| 11 | D-M | D.M. | 1 | 29,00 40 | 10 | 69 | " | " | 0 | 1 |
| Mid. | " | | 4 | 29.48 7 | 140 | 89 | | , | 0 | |

under the command of Commander J. D. Jewell Medus day May 16 15 , U. S. Navy, , 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Lower we were the Sound time in haw se sharboard chain on top lost how we have bless on top Trock of length of All Curry to Stand on the Stand of th Fram 8 aus hubil Miredian Curique le 18 Suggle mutil last fact el Lieu rainy Light to gentle Lincege from 18 76. E + 76 8 Ment to quarters at 950 for unster Es inspection, after which dules fet Lud Es 3rd Dus at stations Es Marines, at Layout eyer aire General Down Markiel wet on board at 10,0's led frace ded whith the trial of N. J. Lindke I.S. A. Which was finished at 1025 Court then groceed Ed with the trial of J. E. Derbais, 1. C. A, At 11 acr lawf loak a tecias autil 1 few C. A. hersigang S. A. 1.8. Teparted his term of wellest week as experied blue asse Fram Merisian until of PM Canagh. lb. D. 98.

Joek She General Court Markish unet for the trial of J. E. Deshow 12.4. At 258 General Court Markial adjourned bleat Elawre at End of Water Trace of butil & PM Cuaga block to gentle breeze from E. No. E. Claus and end of Watche acception. Frame 8 PM Until Mednight Jung Sal. It am high aire le rous in Leaven at end of Watch Sant Chain on tof. Brown Rwell Examined and found to be correct. ED Gallowdy a

| A.M. 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | | Reading | | WIND. | | | | BAROME | TER. | TEM | PERAT | | State of | Forms of | lear ths. | o Sea. |
|---|-------|--------|---------|--------------|-------------|-----------------------------------|--------|-------|---------|-------------------|-----------------|-------------------|-------------------|----------------------|--------------|------------|------------------------------|--------------|
| 1 | Hour. | Knots. | Tenths. | of Patent | | Direction by Standard Compass. | Force. | Heel. | Leewny. | Height in inches. | Ther. att'd. | Air, Dry Bulb. | Air, Wet Bulb. | Water at Surface. | the Weather. | Clouds, by | Prop. of Cle Sky, in 10th | State of the |
| 3 | A. M. | | | | Dey m. | A.m. | 1-3 | | | 29.45 | A | 70 | 69 | | 0.e. 49. | Cun Zim | ,0 | 9 |
| 1 | 2 | | | | A. In Ly D. | Mont | / | | | 29.44 | 71 | 10 | 69 | | 00.8. | " | 0 | |
| 5 Dim Suy D. D. Mr. 29.45 70 69 68 0.024. " 0 6 Minh Mich 2-4 29.46 71 70 68 0.09 24. " 0 7 " 3 29.56 70 69 64 3.0.44 " 2 8 " " 3 29.56 70 69 66 8.0.3. " 2 10 " 3 29.58 71 70 37 " 2 | . 3 | | | | D. m Ley M. | 76.101. | / | | | 29.42 | 70 | 70 | 68 | | " | | 0 | |
| 5 Dim Suy D. D. Mr. 29.45 70 69 68 0.024. " 0 6 Minh Mich 2-4 29.46 71 70 68 0.09 24. " 0 7 " 3 29.56 70 69 64 3.0.44 " 2 8 " " 3 29.56 70 69 66 8.0.3. " 2 10 " 3 29.58 71 70 37 " 2 | 4 | | | | A.101 | much | 1 | | | 29.43 | 70 | 69 | 68 | | " | 4 | 0 | |
| 10 " 3 29.56 70 69 67 3.0. UL . P 10 3 29.56 70 69 66 3.0. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. | 5 | | | | Dim Suy D. | . , | / | | | 29.43 | 70 | 69 | 68 | | 0.0.W. | " | 0 | |
| 8 " 3 29.56 70 68 66 " 2 20.51 90 69 66 S. c. 3. The last 9 10 " 3 29.56 70 69 66 S. c. 3. The last 9 | 6 | | | | Mich | much | 2-4 | | | 29.46 | 11 | 70 | 68 | | o. e.g. u. | | 0 | " |
| 9 " 3 29.56 70 69 66 S. e. Z. Fulach 9 10 " 9 19.58 71 70 67 " 2 | 7 | | | | " | 11 | 3 | | | 29.02 | 70 | 69 | 64 | | J. c. 111 | | p | ** |
| 10 " 3 29.58 41 40 69 " 2 | 8 | | | | " | " | 3 | | | 29.56 | 10 | 69 | 66 | | 11 | .1 | 2 | 4 |
| 10 " 29.38 71 70 67 " " & | 9 | | | | " | " | 3 | | | 29.0% | 1/0 | 69 | 66 | | S. c. S. | Tulach | 9 | ., |
| | 10 | | | | ,, | " | 9 | | | 29.38 | 41 | 70 | 34 | | " | | 2 | 1. |
| 11 11.16.11. | 11 | | | | m. 16. m. | " | 3 | | | 2908 | 7 | 71 | 68 | | " | ,, | g | " |
| Noon. " 3 29.58 7/3 7/2 69. " a. au. 4 | | | 2.9 | | , , | " | 3 | | | 29.58 | 14/3 | 1/2 | 69. | | " | Qu Cum. | 4 | 11 |

| Course and distance | made good since preceding noon by observ | vations, | knots. | | tenths | | |
|---------------------|--|-----------------------|--------|------|--------|-------|--|
| | (Latitude by D. R. | | 0 | 1. | | * | |
| | Longitude by D. R. | | • | , | " | | |
| Position at Noon: | Latitude by observations of ⊙ | | • | , | " | | |
| | Longitude by chronometer from Forence | oon Observations of ⊙ | | , | " | | |
| | (Latitude by | | • | , | " | | |
| Position at 8 a.m. | (Longitude by | | • | , | " | | |
| | (Latitude by | | , , | , | " | | |
| Position at 8 P. M. | Longitude by | | • | , | " | | |
| Current during the | time, knots tenths per he | our, setting to the | | | | | |
| Variation of the Co | ompass by Amplitude o observed at Sunri | se, ship's head | • | , | " | | |
| Variation of the Co | ompass by Amplitude ⊙ observed at Sunse | et, " | • | , | " | | |
| Variation of the Co | ompass by Azimuth ⊙ observed at | " | • | , | " | | |
| Variation of the Co | ompass by Azimuth o observed at | " | • | , | " | | |
| Water expended du | ring the preceding 24 hours, | | é | 30 | -O gal | lons. | |
| Water | during the preceding 24 hou | irs, | | 1 | | " | |
| Water remaining or | hand fit for use at Noon, | | 14 | a | 0 | " | |
| | ing the preceding 24 hours, | | / to | ns 4 | 100 | lbs. | |
| Coal remaining on 1 | | | 11111 | 0 | 150 | 46 | |

| P. M. | | | | | 1 | | , | ~ |
|-------|---------------|----------|---|-----------------|--|---------|-----|----|
| 1 | M. D M. | much | 3 | 29.55 75 74 69 | L.c. 3. | Cir and | 4 | 9. |
| 2 | " | m. D. m. | 2 | 2958 70 75 76 | , 0 | , | 6 | * |
| 3 | D. M. | " | 3 | 29.59 76 75-69 | " | " | 7 | |
| 4 | West | much | 2 | 29.60 77 76 69 | " | " | 7 | |
| 5 | 2"2 | " | 3 | 29 63 47 76 % | " | " | 7 | |
| 6 | M. Ly. 76. | " | 2 | 29.63 76 76 69 | * | " | 1/2 | |
| 7 | 76 m. | , " | 2 | 29.64 75 45-68 | | "" | 8 | - |
| 8 | No. m, Ly M. | balu | 0 | 2964747368 | "1 | " | 10 | |
| 9 | M. Ly 16. | " | 0 | 29.64 /2 /1 66 | X | House | 10 | |
| 10 | Mich | " | 0 | 29.66 70 69 66 | - | " | 10 | |
| 11 | 16. E. Ly, E. | " | 0 | 29.67 4068 66 | | " | 10 | |
| Mid. | 16 by 6. | " | 0 | 24.6 1 70 68 60 | " | 1 | 10 | |
| | | | | | The state of the s | 179 | | |

under the command of Vacuuaus Est 2. 2. Lewell Thursday May 11/# , U. S. Navy, , 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Lower cut. Clandy Renerally Vainty Light airs from 26 m. to D. M. During first Liour gentle derege from Sm. Craw in Leaw & fant chain on top Qually Seems have, Described to crew 99 les of fresh Er cas, Clear hawse Liberly farly tehurus From 8 all linkel Miridian lunge It. 17. Fair 26 Waren Nagy. Sent le surveye from Whet At 920 Juno Que di single etiere El Ponder Die at estations. It ges lands lair to a von line. Recured ui Equept Dept, Ten (10) Gallans of Alertol By order of bound officer released Fathle G. S. A. 18, from Confinement It 10:2 The Beneral Pourt Martial wet for the trial of J. E. Deabaio, 1. a.N. It 11's Served charges by specifications on G.A. Williams 1.4. A. At 11 45. General Lourt montial adjourned until 10,00 ocerex the 18th wish, bless Frank Meridian linkil of Port It 3,30 furled sail dient lander. I. S. Bicknell, left the ship an Thirty (20) blur howse of obsence Exercised some of the apprenties at signals Chinique 76. 1 M. cs. Freetun Franklagy, Light arrege from Much. Chert Lawre H Hace & Phr levil Musingles blen haw ex X read Co. IR. Examined and found to be correct. En Lalloway Enavigator.

| | | | D. N. | | WIND. | | | | BAROMET | TER. | TEME | PERAT | URE. | State of | Variation of | lear ths. | Sea. |
|-------|--------|---------|------------------------|----------------------|-----------------------------------|--------|-------|---------|-------------------|-------|-------------------|-------------------|----------------------|-----------------------------|------------------------------------|--------------------------------|-----------------|
| Hour. | Knots. | Tenths. | Reading of Patent Log. | by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. | Air, Dry Bulb. | Air, Wet Balb. | Water at Surface. | the Weather, by symbols. | Forms of Clouds, by symbols. | Prop. of Clea Sky, in 10ths | State of the Se |
| A. M. | | | | No. No. E. | Calen | U | | | 29.68 | 68 | 68 | 64 | , | 8.3. | House | 10 | 5 |
| 2 | | | | W. 76 M. | | 0 | | | 29.68 | 68 | 68 | 63 | | " | " | 10 | 4 |
| 3 | | | | 76. 96. M. | " | 0 | | | 29.68 | 67 | 66 | 63 | | ," | " | 10 | " |
| 4 | | | | D. E. Ly E. | " | 0 | | | 29.700 | 61 | 66 | 64 | | J. C. 3. | Cur | 8 | · |
| 5 | | | | E. D. E. | 1 | 0 | | | 29.73 | 61 | 66 | 64 | | o. c. 3. | Pum | 0 | * |
| 6 | | | | 76. M. | " | 0 | | | 29.74 | 64 | 66 | 64 | | ,, 0 | " | 0 | 4 |
| 7 | | | | no Ley M. | " | 0 | | | 29.76 | 68 | 66 | 63 | | 1" | " | 0 | |
| 8 | | | | No. M. Ley 76. | " | 0 | | | 29.77 | 69 | 67 | 65 | | E. c. 3. | Luca | 2 | " |
| 9 | | | | Much | " | 0 | | | 29.79 | 70 | 69 | 66 | | " | " | 2 | - |
| 10 | | | | " | " | 0 | | | 29.78 | 71 | 70 | 64 | | " | " | 3 | |
| 11 | * | | | M. Ley D. | " | 0 | | | 29.80 | 1/2 | 70 | 68 | | " | , | 3 | * |
| Noon. | | | | A. m. Ly m. | " | / | | | 29.81 | 73 | 11 | 68. | | " | " | 3 | - |
| | | | | , | | | | | 1 | | | | | | | | |

| Course and distance made good since preceding noon by observations, | kı | iots. | t | enths. |
|---|------------|-------|-----|----------|
| (Latitude by D. R. | | 0 | , | " |
| Longitude by D. R. | | 0 | , | " |
| Position at Noon: Latitude by observations of ⊙ | | 0 | , | " |
| Longitude by chronometer from Forenoon Observ | tions of ⊙ | 0 | , | " |
| (Latitude by | | 0 | , | " |
| Position at 8 a. m. Longitude by | | 0 | , | " |
| (Latitude by | | 0 | , | " |
| Position at 8 P. M. Longitude by | | 0 | , | " |
| Current during the time, knots tenths per hour, setting | to the | | | |
| Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's h | ad | 0 | , | " |
| Variation of the Compass by Amplitude ⊙ observed at Sunset, " | | 0 | , | " |
| Variation of the Compass by Azimuth ⊙ observed at " | | 0 | , | " |
| Variation of the Compass by Azimuth ⊙ observed at " | | 0 | , | ,, |
| Water expended during the preceding 24 hours, | | 0 | 50 | gallons. |
| Water during the preceding 24 hours, | | | | " |
| Water remaining on hand fit for use at Noon, | // | 10 | 0 | " |
| Coal consumed during the preceding 24 hours, | " | tons | 200 | 20 lbs. |
| Coal remaining on hand at Noon, | 1111 | 1 " | 13 | 20 lbs. |

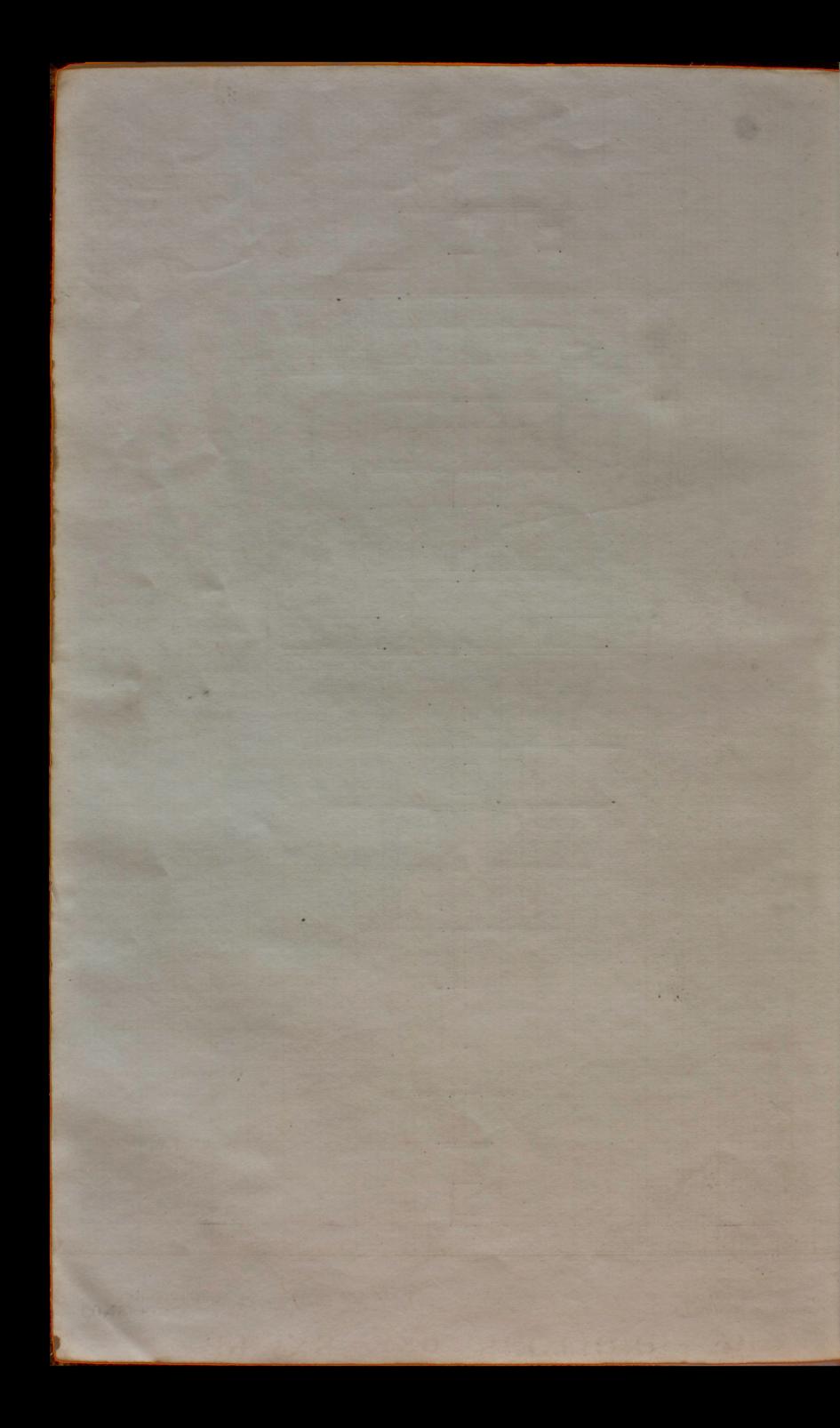
| P. M. | | | - | | | | 1 | | 2 1 |
|-------|------------|-----------|---|---------|-------|-----|----------|--------|------|
| 1 | m. A. m. | D. D. M. | 2 | 29.817 | 4 /2 | 70 | L. c. 3. | Ci anu | 20 |
| 2 | M. Ley D. | " | 2 | 29.817 | 5 /3 | 70 | " | | 3 " |
| 3 | m. B. m. | " | 1 | 29.817 | 5-73 | 70 | " | " | 3 " |
| 4 | A.M. Ly M. | | / | 29.817 | 5- 4 | 71 | " | | 4, " |
| 5 | D.D. m. | " | / | 29.81 | 76 70 | 70 | | " | 4, " |
| 6 | " | Dauth | / | 29.827 | 6-74 | 70 | " | , | 4" |
| 7 | Q. M. | " | 1 | 29.84 | 15-74 | 69 | | ,, | 4 " |
| 8 | D. E. | Carl | 1 | 29.84 | 1476 | 1/4 | " | " | 6 " |
| 9 | 60,6 | Calui | 0 | 29.84 | 111 | | " | ,, | 8 |
| 10 | 6. Ley 16. | " | 0 | 29.867 | 1/// | 64 | " | 4 | 7 |
| 11 | m. Ly D | D. M. | / | 29877 | 111 | 65 | * | " | 6 |
| Mid. | m. 76: m. | m. 76. m. | / | 29.86.7 | 1 / 1 | | | " | 6 |
| | | | | 1 | 1 | / | | | |

under the command of Orommand of D. D. Lewell!
Driday May 185 , U. S. Navy, , 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Lawre Stanboard chain on top Frace of leufil & aux Mettoggatt C Chang 4. 26. J. 8 Claudy bales. Nagy. At 14.5 made liqual 5 4 61 Flag accoursed with Cornect, the So: Shanted fines in bailers 194 3 far Suf Ed Degatables 24 / no the of fruit break. Tipo Hrow & aux linkel Merisian Englilles. 8 Generally Claudy. Nagy. Marie. Calcu tuctil lack hour when light airs from sim by s. At 9'30 impected at quapters At 950 a Munmary Pourt Mantial wet an board for the trial of G. A. Willia 1.C. A. The Court adjourned at 10,20 to await the cast ion of the revising Authority, At 95 9. The Leucral Court Markial met and adjourned at 10 23 The Several Court Markial Was Sineal us of 1145. The brew waking forcarations for an entertainement on board. At 800 sharted fines in Garations d'as for dustilling. Clas Lawre at end of Watche CA. F. Decention Jenerally Cloudy & Leany, Waren, Light aims & inverge from D. D. M. Received an afficial Wint from the Captain of N. 18 m. D. Leander, Clear Leaves at lind of Watch. Distilling Deux glass Marin. Generally Clausy. Nazy. Light Vanable ains. France of lentil & PM Dustilling. Men giving van entertainment and Food to crew of Brooklyn A. F. sechulu Jeneraley Clear Lang & bleas and balu and light airs Xient U.S. B. MI Hoggatt Examined and found to be correct. Deich and Navigator

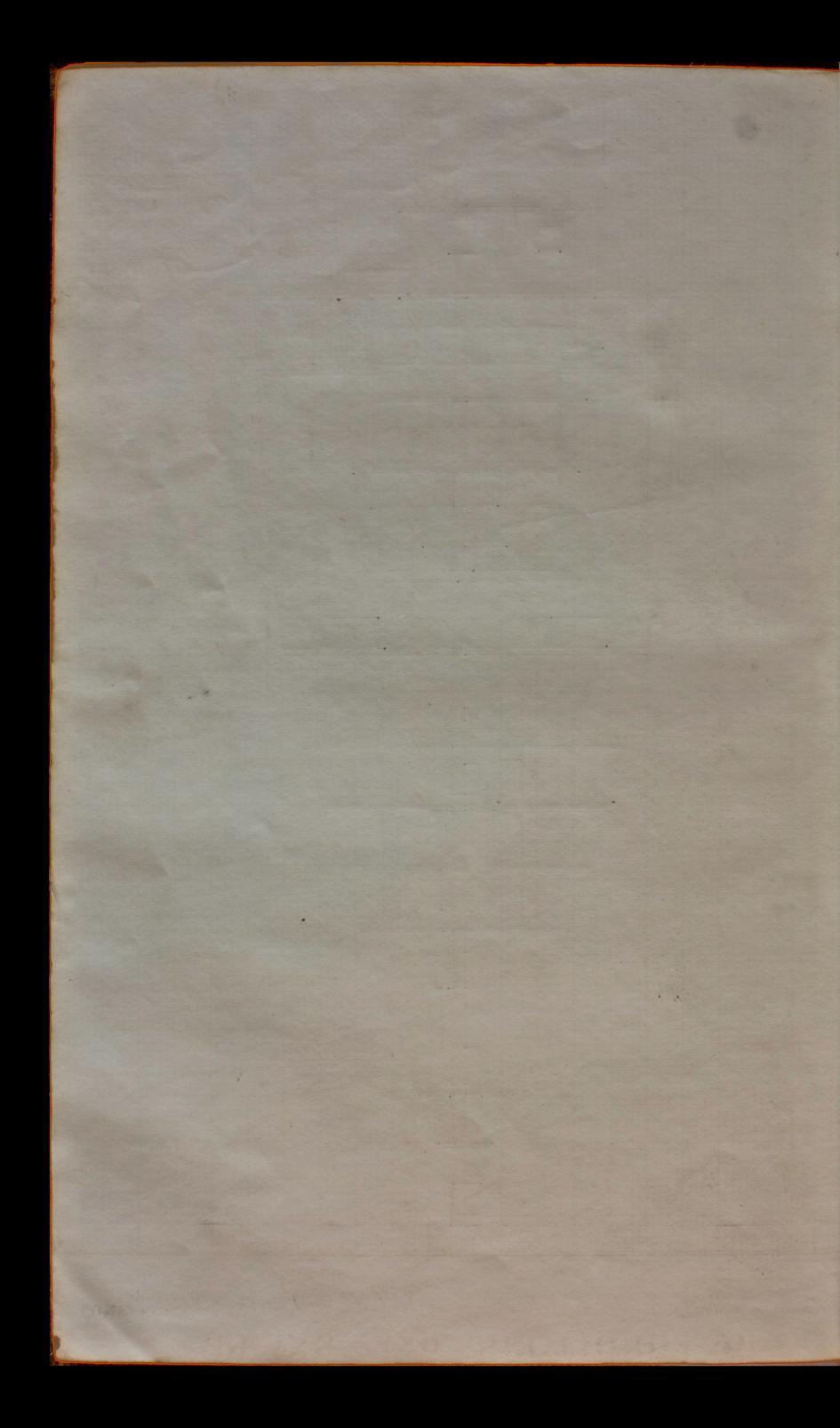
| | | | Reading | | WIND. | | | | BAROME | | | | | State of | Forms of | Hear other | e Sea. |
|-------|--------|---------|----------------------|----------------------|-----------------------------------|--------|-------|---------|-------------------|--------------|-------------------|-------------------|----------------------|-----------------------------|---------------------|------------------------------|--------------|
| Hour. | Knots. | Tenths. | of Patent Log. | by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. att'd. | Air, Dry Balb. | Air, Wet Balb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Cle Sky, in 10th | State of the |
| A, M. | | | | E Ly. D. | m. 16. m. | / | | | 29.88 | | | | | None | None | 10 | 3 |
| 2 | | | | / | ,, | / | | | 29.86 | 69 | 61 | 62 | | 8.3. | | 10 | " |
| 3 | | | | " 1 | " | 1 | | | 29.84 | 168 | 66 | 6/ | | " | " | 10 | |
| 4 | | | ,0 | No. E. Ly 6. | " | / | | | 29.84 | 66 | 60 | 6/ | | . 1" | 0" | 10 | * |
| 5 | | | | m. Ly D. | m. a.m. | / | | | 29.84 | 165 | 64 | 62 | | L. c. 3. | Lan Dan | 8 | 10 |
| 6 | | | | " | | / | | | 29.84 | 65 | 64 | 5-9 | | " | . " | 8 | |
| 7 | | | | m. 16. m. | Calen | 0 | | | 29.86 | 67 | 65 | 60 | | " | " | 8 | ,, |
| 8 | | | | D. E. Ly E. | , | 0 | | | 29.88 | | | | | " | , | 9 | 4 |
| 9 | | | | "/ | " | 0 | | | 29.87 | 111 | 69 | 63 | | " | | 8 | 10 |
| 10 | | | | D+M. | D. Ly M. | / | | | 2987 | 1/2 | 71 | 64 | 1 | , | " | 8 | " |
| 11 | | | | " | | / | | 1 | 29.87 | 1/3 | 70 | 60 | - | " | " | 7 | " |
| Noon. | | | | South | South | / | | | 29.87 | 475 | | | | | , | 9 | , |

| Course and distance made good since preceding noon by observations, | knots. tenths. |
|--|----------------|
| (Latitude by D. R. | 0 / // |
| Longitude by D. R. | . , ,, |
| Position at Noon: Latitude by observations of ⊙ | 0 , , |
| Longitude by chronometer from Forenoon Observations of ⊙ | 0 , " " |
| (Latitude by | 0 1 11 |
| Position at 8 a. m. Longitude by | 0 , "," |
| (Latitude by | . 0 , " |
| Position at 8 P. M. Longitude by | , ,, |
| Current during the time, knots tenths per hour, setting to the | |
| Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head | 0 / // |
| Variation of the Compass by Amplitude ⊙ observed at Sunset, " | 0 / 11 |
| Variation of the Compass by Azimuth ⊙ observed at " | |
| Variation of the Compass by Azimuth ⊙ observed at " | . 0 / // |
| Water experied during the preceding 24 hours, | 3.50 gallons. |
| Water & wehilleduring the preceding 24 hours, | // 5-0 " |
| Water remaining on hand fit for use at Noon, | 1.900 " |
| Coal consumed during the preceding 24 hours, | ons 1420 lbs. |
| Coal remaining on hand at Noon, | . 151 "16524" |
| | |

| P. M. | | 2-0 6 | 0. 1 | , | | | | | 1 | 1 | 0:0 | £ | 6 |
|-------|----|---------------|-----------|-----|---|-------|-----|-----|----|----------------|---------|----|---|
| 1 | | D. Ly 6. | Daux5 | 1 | | 29.87 | 77 | 74 | 66 | J. c. g. | + 8/40f | 6 | " |
| 2 3 | 4 | D. W. | D. 18' | 2 | | 29.86 | | | | " | | 0 | " |
| 4 | | D. M. Ly D. | " | 2 | | 29.86 | 74 | 46 | 68 | " | " | 0 | - |
| 5 | | 1. 12:14. | " | 2 | | 29.86 | 70 | 72 | 68 | " | " | 3 | - |
| 6 | | 10. Ly m | " " | 2 | | 29.89 | | | | " | " | 0 | , |
| 8 | | 2. 5. 6. | " | 1 | | 29.87 | 1/2 | 1/0 | 66 | | " | 8 | - |
| 9 | | D. M. | Much | 1. | | 29.91 | 72 | 70 | 66 | 1 | " | 10 | 0 |
| 10 | | D. D. C. | Calcu | | 1 | 2990 | 7/2 | 7 | 67 | 8.3. | 20 | 1 | " |
| 11 | | 16. D.G. | 6. D. C. | 1-3 | | 29.84 | 7/9 | 70 | 67 | 8.3. L.e.3. | and . | 2 | 4 |
| Mid. | 11 | 16.6. Ley. 6. | E. 76. 6. | 1 1 | | 10/ | 6/ | 0) | 67 | u.c.g. | , gemo | | |



under the , U. S. Navy, Merid to 4 P.m. Contined 1888. and de duckanorally duckarged from the 26. S. navel Service Before the Dame Sourk was Kried Julis. E. Deabais 1. C. A. Plarge 1. Uswareheng touring abusing and threatening language to wards the Yokie authorities while in the discharge of their Luxies Plange 2 Down kness on duly, Furling Plange 1 . nom. Clear Lawn Sixtilling Sulfy Playe & Renety Ventince: That he the wait July Rustone 6. Derbais 1.2. N. De laufined on Goard the U. D. D. Cruy igu. C. 1. 18, until an affortunity access for sending them to the Ofor Drew rooths of fresh ter Distilling to Hornited whates: where he write be sent and refor his arvive in 2.4.6+8 Voilero there to be confined in such place as the Nan Decretary? of the navy may disignate for the Leriod of mine month with le & 18. To lese all You that may become due him during this time top gallent Recen Collins comounting to (99) numety nine Sallars, except the sun Sails "aus Cro I as Laving exof the dalears for meeters any expenses the at the exper-Lives. Dear on top. Dishilling ation of him team of Confirment to be Lait the weem 13 loggatt of hevenly five dallars and be durlan arable diechanged unglell 18 from the 26. D. navel survice, At 1 de enjenies where with yet fact dight ready, At 122 made Dink. 6/80 auswered 904, Meighed fork Treeze from mucher and read A. Red J. E. Dichois finding'o and you chor, at it cased all hand's ref an chor. It 204 made Int 1.c. A. Deup & exercide while in 2259 an severed got she 230 whenh ahead one Sell, shafted South to execution as follows. That to Danstard out side of Dhipping, Rame to wet shan brand ace us to Mend Kins Ka, Vatruer J. & the United man place as the anchor in five fathoms of water (bakkom safe clay) it 234 Hou: Decrepa 1 & come due Line Metered to Jufteen fattoms at Waters edge, Banked fives in Suring Anch eces ary expenses and whom the hoilers 5. 6. 7. and 8. Cantinued duchelling. N. M. S. Lean Ser Went " then to be diohonorably dis one Lundred as to Wea. General Rout Markial Jurison ero were re confined liventy mine C 12 1 obserce relit en Dingle Drons as her order of Rouch. Rave off sharboard Can out have, a Eduties of this To fish. Tearing's off an charage. Trues light no/4 m. Light office and us rge & guilty Ly clarge 2 gu on M. Queber. M. m. /4 m. Old Fork D. m. Ey. m./2 M. Reduig to the H. S. Every Se went and whom The feriod of very monto, to love all fay that may become due tim during that time amounting to one arrival there to be langines. Kundred and forty four dalears, except time dalears for month for necessary expenses, fundion of the ferrial of langinement to be fail the sum of thirty dalears and be dishonarably I inchanged forom the 16 is naval survice. Before the same lourd Was You ed Newry J. Lind Ke. K. Charge of absence Without leave. Plange Ind, Using Swalent absource and absence fanguage toward's his superior officer while is the execution of the duties of his office. Furting Charge I Swelly by Lilea Phange I Duck by Lilea, Wenterce that to. Newy Jedies Ike 1.C. A. be Confined on bound sto 16. A. Cing wat it on affortunity acours to when I ken to the Hunted whater. Where Le wice be Sent and up on this arrival there; to be con fined there in Auch Has a the Non Decretary of the navy May designate for the feriod of dry months. To lace race you that may become due Levis decreng that I we amounting to skyly wix dallars. except thro dallars for meeris ary extenses and at the expendion of his here of Confine ment to be fand the seem of I went of Kere Dellaro



May 19. Contined , U. S. Navy, under the 1888. Single anchar at end of watch. Dustilling. From 4 until 8 PM. Leisiguille D. M. Generally clear and Xleasant, Light airs on Snege : 76m. Char Lawre Subilling from sor. Bunk main try race and fare top mark shay sail Rustoner Dustilling igu. C. D. D. Milloygatt Ofor Drew 100ths From 8 P.M. Until Milmight Eusign 26.0.7. of fresh o in 2,4.6+8 Voilers Distilling: Nagy Clear ar fright at first. Planding over ofter. A Sechlight wards with moon no jehans occasionly obscured - Cloud, eint lb. J. B. Quem and minte, Light aim from West you law Palu and hour top gallent Keen cottis Light airs to gentle bruge from E.D. E. & E. N. E. lather Land Sails and C Mr single anchar. Fine Banker. Dustilling 1 as Laving ex-Lines. Des. on top, Dishilling Mel toygatt unglell 18 Enigh Te. io. A. with yet fach dight Treeze from mucher and read . A. Red J. E. Dichois finding'o and 1.c. 1. Deup experior while in as follows . That to execution Re, Patrick , ace uso to Men & Kins & te United man place as the How: Decrept 1 Decome due Tim Ouring Such ecessary expenses and upon ste " then to be dis-Lonarably Sin one Lundred 3 liventy mine 12 1 obsence relit Lalloway Mavigador out have, Eduties of thise office and un rge & guilty Ly clarge 2 gu the H. S. Every until on of Se went and whom arrival there to be l'anjuned in much year us me VAZ Many may designate for The ferior of very monto, to law all fay that may become due tim during that time amounting to one Lundred and forty four dalears, except time dalears for month for necessary expenses fundion of the ferriso of langinement to be fail the sum of thirty dalears and be dishonarably I inchanged forom the the of naval survice. Before the same loved was Yourd Newry J. Lind Ke. K. Charge & absence Wethout live . I large Ind, Using Swolent absource and abusive fanguage toward's his superior officer while in the execution of the duties of his office. Furting Starge I Swelly by Lea Phange I Swelf by Lea. Wenterce that to. Newry, Jedier Ixe 1.C. A. be Confined on bound sto 16. A. Cing wat it on affortunity acours to wend her to the House I whater Where he will Le Sent and upon this arrival there; to be con fined the in seach the Non Searchary of the navy May designate for the Levis of dry months. To lose race you that may become due Levis decreng that Time ramounting to suffy six dallars. except thro dallars for meerisary extenses and at the expendion of his here of Confine ment to the Sund the Succe of I went y have solliers

LOG of the United States Steamer Easy 3nd, Rate, Mrking Jassage from Nobe to Garolama Jepan

| | | | Reading | | WIND. | | | | BAROME | ETER. | TEMI | PERAT | URE. | State of | Forms of | Hear ths. | e Sea. |
|-------|--------|----------|---------|---|-----------------------------------|--------|-------|---------|-------------------|-------|-------------------|-------------------|---------------------|-----------------------------|---------------------|------------------------------|--------------|
| Honr. | Knots. | Tentife. | of | COURSES STEERED by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. | Air, Dry Bulb. | Air, Wet Bulb. | Waterat Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Cle Sky, in 10th | State of the |
| A. M. | | | | n. e.f. 6 | 7. E. | 3 | | | 29.87 | 68 | 67 | 63 | | S.e. z. | 0 % | , ~ | m |
| 1 2 | | | | No. E. Ly E. No. E. Ly E. | " | 2 | | | 29.86 | | | | | " | " | 6 | "6 |
| 3 | | | | 16.16. Ly E. | " | 3 | | | 29.85 | 67 | 66 | 63 | | " | " - | 7 | |
| 4 | | | | " / | 1 | 3 | | | 2985 | 67 | 66 | 63 | | " | " | 3 | |
| 5 | | | | E n. E. | Cash | 3 | | | 29.87 | 66 | 65 | 62 | | " | - , | 6 | 3 |
| 6 | | | | 16.ME. | " | 2 | | | 29.88 | | | | | " | | 0 | " |
| 7 | | | | " | " | 2 | | | 29.90 | 68 | 65 | 62 | | " | li luce | 5 | 12 |
| 8 | | | 4.3. | D. D. M. 3/4 m. | , | 2 | | | 29.86 | | | | | " | " | 7 | 82 |
| 9 | 8 | | 12.3 | 8.2 W.5/8 m | € 2.6 | 2 | | | 29.85 | | | | | | " | 8 | |
| 10 | 8 | | 20,0 | | Dout | 2 | | | 29.80 | | 1 | | 1 | | " | 8 | * |
| 11 | 3 | 20 | 28 7 | Douth . | D. Ly m | 2 | | | 29.83 | 9000 | 1 | | | " | " | 8 | 543 |
| | 1 0 | | 36,0 | | D. m. | 2-3 | | | 29.83 | | | | | | . ,, | 8 | " |
| 1,000 | / | | | | | | | | | 1 | | | | | | | |

| Course and distance made good since preceding noon by observations, | various . | 36 knots | tenths. |
|---|-----------------------|------------|-----------|
| (Latitude by D. R. | | 0 , | " |
| Longitude by D. R. | | 0 , | " |
| Position at Noon: Latitude by observations of & Bearing | s ~ | 34 04 | " |
| Longitude by chronometer from Forenoon Obser | vations of Bearings E | 135° 01' | 30" |
| (Latitude by | | 0 / | " |
| Position at 8 a. m. Longitude by | | 0 , | " |
| (Latitude by Bearings | | N 33° 25' | " |
| Position at 8 P. M. Latitude by Bearings Longitude by Bearings | E. | 135° ° 50' | " |
| Current during the time, knots tenths per hour, setting | g to the | | |
| Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's | head | 0 / | " |
| Variation of the Compass by Amplitude ⊙ observed at Sunset, " | | 0 / | " |
| Variation of the Compass by Azimuth ⊙ observed at " | | 0 , | ". |
| Variation of the Compass by Azimuth ⊙ observed at " | | . 0 | |
| Water expended during the preceding 24 hours, | | | ogallons. |
| Water Dishilled during the preceding 24 hours, | | 150 | 0 " |
| Water remaining on hand fit for use at Noon, | | 20 | 50" |
| Coal consumed during the preceding 24 hours, | | 7 tons 3 | 8 0 lbs. |
| Coal remaining on hand at Noon, | | 144 "18 | 74 " |
| | | | |

| PM | 5 | 6 | 41.6 | Sout | | | | | | | | | 1 | | | |
|----|---------|-------|---|--|---|-----|---|-------|-----|----|------|----|---------|------------|----|------|
| 1 | 0 | 2 | 43.4 | 01/0/ | Daux | 2 | | 29.79 | 7/2 | 70 | 66 | 65 | 5. e. z | Cir Cum | 7. | S.C. |
| 2 | onthe ! | 96 | 77.2 | 1.6 4.6 1.6 4.6 | " | 2 | | 29.79 | 72 | 70 | 66 | 67 | " | " | 7 | - |
| /3 | 60 | 4 | 57.9 | 28/16 5-16/16 | " | 2 | | | | | 41 4 | | | " | 8 | - |
| | | | 66.3 | 981/1 | " | 2 | | 29.78 | | | | | , | " | 6 | - |
| 5 | 4 | 4 | 410 | " | D. Ly & | 2 | | 29.77 | | | | | " | | 5 | " |
| В | 14. | 600km | 7700 | 386,81,8 | " | 2 | | 2977 | - 1 | | | 1 | | " | 0 | - |
| 7 | 450 | 986 | 7 1 00000000000000000000000000000000000 | 4846348 | D. M. Ly D. | | | 29.75 | | | | | | ar cum | 6 | |
| | | | 96.0 | 18.61.81/02 | " / | 2 | | 29.74 | 4.0 | | | | | " | 8 | |
| | | | 1.5 | EX.E.14.E | | | | 29.74 | | | | | | Line which | 8 | - |
| | - | | 16.6 | | D. M. | | | 2974 | 42 | 40 | 68 | 64 | " | " | 8 | - |
| | 1 | | . / | , , | D. D. M. | | | 29.74 | | | | | | ai Cum | 8 | * |
| | | | 398 | | " | 2- | | 29:78 | | | | | | 4 | 8 | F |
| | | 1. | | N 8 8 W | 100000000000000000000000000000000000000 | 1 1 | - | 1 1 | | 1 | | | | | - | |

under the command of Couruander J. D. Jewell Dunday May 20th , U. S. Navy, RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Commencences and until 4. Am Olian and pleasant. Nagy. Gentle Ereege from NE. At 12.00 Xanks Leing free shapper distilling " Louled fire in boilers no's rand s. A. soo. Sharked fines in Boclin no's and f From of until 8 Am Insign C. D. 7 Generally Plear Logy Bo flearant Gentle to light Briege foron Each Made frefrerations for Den At 640 the Fragolis larshed free 4890, at 6.05. 4890, Box under way " stood out of the Karbar at 700. Kx 700 Brooklyn gap underway " selood dut, Yausted tackical signal 52. At 194. Lainted Lachical Dignal 51. At 730, Loan Separture and Luch Labent lag over readinglas, 750 old fort 16. by m. /4 m. Wada Musiki Light m. 1/8 n. Course D. D. m./2 m. Decured balling for sea, It end of watch sheering so s. m. If m. in wake of d'lagolif under Toksom in sey boilers. Dreath of water farward, 14. 81 At 16 8h. At end of water was a musaking Generally, Elean Boright and Rozy Light lin lum and so borahus elandie Light Light 1. n. E. 1/4 6. Ships head. S. s. m. 3/4 m. bruge from E. D. E. Yah Lour then of ifting to Dout and is Ey, m. the Roming out in last Lour in light to gentle breeze from D. W. D' Xan Sing out of asaxa Bay first fact en wake of 10.0 Flag of it more Lyn. At 8 10. Brooklyn signaled Villegraphie 1422 and 7409 ho Deogocaphical, 0928. At 800 Ast face It aff sail and Your tem in at 920. It 930 Muchered Drew at greathers and secured ballery for Dea. Ah 1022 Samangai Dima Light (Dissema Light) D. E. Ly E. Sp.E. V. L. 235, Ah 1022 Lang Course to South . O. 2,3%. Dent down lap gallent yards, at on of watch on lowerse, South under Sheam alone. U. W. Flagskip Brookeyn ahead bearing (re) I ff m, dustant about key miles hand in sigh all along fork side. It noon Mino Minaka St. Lore S. Ly E. Okino Dinia Deland 7. E. P.L. 368 From Meridian undil of By Christon Chining Co. A. Plear Warmand Gleasand. Wazy around Rorigen dight breeze from south Sheaming down his Channell on lowners, Douth to D. B. /2 D. Ah 195 well fore no of Daiedans along fort Rand Thay whif in wighty about ten miles distant, Paxxain no Macrigator at the Com J.L. 66.3. Insign W. D. 7. Fair no Lleasant Nazy around Louizen Altoo land in for that wais, A. 5.14 chongs Course to D.E. PL. 75,5, At 524. to S. G. Ey. E. P.L. 77, At 544, 40, S. E. Ly. E. 9. L. 50. At 551. to . E.S. E. ged. P. Dech who P. L. V. Vilago his in reight ahead at end of watch Lucy ll w. n. d'rom 6 unfil 8 m Denerally Elear. Noy Light Greege from som. Ey D. At 600 changes Bourse to D.E. Ey E. 9/4 E. At 600 4. D.E. Ey, E./2 E. At 700 40 D.E. Ey, E./4 E. And at 700. He Earl Ill 700 Net fare no aft sais and Brass ed top gallent yards. At you see Barrais and at you laix in all Daie Ap 7 Amio musaki Light bore absom ships head sely & 3/4 E. ap 800. Lon m. H. m John. Onima light at 8 as Gearing (P.C.) N. B. 78c. Ships head East, under wheam alone m. Hoygatt From 8 Om lentil Midnight Chisign C. D. N Generally Elias, Logy, Long & man light. Theranh. Lught breeze from mom. for some that hack, light to gentle is is on breege of Lerwards. It 8 oer changed low see & to. E /4 E. M1820 Wet bare and found for them in at 825, At 910. let Forwait stay sail and file and at 1030 wain bryoare and reparter. At 950 last Right of Ossemi Light bearing (P.C.) M. Ly. 10./2 s. an Course 16. m. 8. /4 6. at end of match under fore by aft sail and steam. Long Leady and whenty somer Mengator. Lient and Javigator Curegn les. 7

| | | - | | | | | | | | | | | | | | | | |
|-------|-------|---------|---------|----------------------|---|-----------------------------------|--------|-------|---------|-------------------|--------------|-------------------|-------------------|----------------------|-----------------------------|---------------------|------------------------------|--------------|
| | | | | Reading | | WIND. | | | | BAROME | TER. | TEM | PERAT | TURE. | State of | Forms of | lear ths. | Sea. |
| Hour. | Frote | Allois. | Tenths. | of Patent Log. | COURSES STEERED by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. att'd. | Air, Dry Bulb. | Air, Wet Bulb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Cle Sky, in 10th | State of the |
| A. N | 1. | | | | 0. 0 | | | | | 10.4 | | | ,, | 10 | .1 | | 0 | 1 |
| 1 | 1 | 7 | 9 | 41.7 | E. n. E. | D. D. M' | 2 | | | 29.71 | | | | | 3.09. | Lis Cun | 2 | S.L |
| 2 | 8 | F | 3 | 00,0 | " | " | 2 | | | 29.70 | 71 | 69 | 67 | 68 | " | " | 7 | |
| 3 | 1 | 1 | 7 | 57.7 | "" | " | 2 | | | 29.68 | 7/ | 69 | 67 | 68 | " | " | 4 | |
| 4 | 1 | y | 0 | 64,7 | ". | D. D. E. | 2 | | | 29.69 | 11 | 69 | 67 | 68 | " | Ci Cum | 6 | " |
| 5 | 1 | 1 | 3 | 72,0 | " | 7.6. | 2 | | | 29.69 | 71 | 70 | 68 | 68 | " | 4 | 5 | |
| 6 | 1 | 4 | 6 | 11 | " | no. by 6. | 3 | | | 29.71 | 71 | 69 | 64 | 68 | " | " | 4 | ., |
| 7 | 8 | P | 4 | 88.0 | // | n. n. m. | 4 | | | 29.73 | 70 | 60 | 65 | 68 | " | " 1, | 4 | |
| 8 | 1 | 9 | 00 | 97.0 | n. E. by . E./2 E. | " | 4 | | | 29.71 | 10 | 68 | 64 | 68 | " | " | 3 | m |
| 9 | 8 | F | 1 | 105.6 | 8 7 | Mart | 4 | | - | 29.72 | 69 | 61 | 63 | 68 | 1 | " | 3 | |
| 10 | 6 | 20 | ~ | 12.3 | " | East | 4 | | | 29.73 | 69 | 67 | 63 | 68 | , | " | 2 | ~ |
| 11 | 6 | 6 | 7 | 19.0 | " | ,, | 4 | | | 29.74 | 140 | 63 | 63 | 68 | , | 4 | 2 | |
| Noo | n. 6 | 00 | 25 | 24.2 | n. E. By. E. /2 C | " | 4 | | | 29.74 | 170 | 66 | 62 | 70 | " | * | 2 | " |
| | | | | 1 | | | | | | | | | | | | | | |

| Course and distance | made good since preceding noon by observations, | | knots | | tenths. | | |
|----------------------|--|--------|---------|--------|----------|---|--|
| | (Latitude by D. R. | | N 34 ° | 21' | 30 " | | |
| | Longitude by D. R. | | E /38 ° | 04' | " | , | |
| Position at Noon: | Latitude by observations of ⊙ | | N 34° | 07' | " | | |
| | Longitude by chronometer from Forenoon Observations of | of o | E 187 . | | " | | |
| | (Latitude by | | | , • | " | | |
| Position at 8 a.m. | Longitude by | | • | , | " | | |
| | (Latitude by | | 0 | , | " | | |
| Position at 8 P. M. | Longitude by | | • | , | " | | |
| Current during the | time, from \$ hou. to Noon tenths per hour, setting to the | 3 28°W | | | | | |
| Variation of the Co | mpass by Amplitude ⊙ observed at Sunrise, ship's head | | 0 | , | " | | |
| Variation of the Co | mpass by Amplitude ⊙ observed at Sunset, " | | 0 | , | " | | |
| Variation of the Co. | mpass by Azimuth ⊙ observed at " | | 0 | , | " | | |
| Variation of the Co | mpass by Azimuth ⊙ observed at " | | 0 | , | " | | |
| Water expended dur | ring the preceding 24 hours, | | | 30 | gallons. | | |
| Water | during the preceding 24 hours, | | | | " | | |
| Water remaining on | hand fit for use at Noon, | | | 2,00 | | | |
| Coal consumed duri | ng the preceding 24 hours, | | 15 | tons/4 | 50 lbs. | | |
| Coal remaining on h | and at Noon, | | 128 | | | | |
| | | | | | | | |

| P.M. | | | | | | | |
|------|-------|----|----------------------------|-----------------------------|----------|-----|-------------------------------------|
| 1 | 0 | 0 | 19.7 | n. E. Sy. 6./26 | Each | 4-5 | 29.13 69. 65 61 69 8.0. g. Pigm 3 M |
| 2 | 5 | 3 | 35,0 | " | " | 4-5 | 29.73 69 65 60 69 . 3 . |
| 3 | 0 | 0 | 40.0 | " | | 4-6 | 29.7268640868 8.0.3.9. 2 % |
| 4 | 4 | 8 | 44.8 | " | " | 4-6 | 29.71 68 6407 66 . " 1" |
| . 5 | 6 | 8 | 44.8 49.6 05.0 0 60.9 62.0 | N. E. /2 E. | " | 5 | 29.48 6768 54 66 S.O 1 M |
| 6 | 5 | 4 | 55,0 | 11 | " | 4 | 29.74.6662566500.0. |
| 7 | 4 | 3 | 60,9 | ne. by E./2 &. | Esyn. | 4 | 29.80 06 62 6664 0.0. 2 am rett 0 |
| 8 | 4 | 39 | 62.08 | E. n. C. / E. | , | 4 | 29.80 66 62 56 64 " Runil 0" |
| 9 | 6 | 4 | 73.6 | 6.1/2 12 | 6. n. c. | 4 | 29.80 66 62 65 61 " " 0" |
| 10 | 3 | 4 | 73.6 | E.n.e./2 E. | n. E. | 4 | 2080 15-58 5511 |
| 11 | 01.40 | 3 | 80. 2. 7 | E.n.E./2 E. 22. E. Ey, E | " | 4 | 29.18.65 58 55 54 |
| Mid. | 7 | 3 | 94:3 | 7.6. | " | 4 | 09.18.65 58 55-54 " |
| | | | | | | 11 | |

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and linchil of am Generally Clear Nazy wrown & Korigen Light breeze from so so m until last hour, when oxighed to so so E. At 12 as Changed lourse grom E. n. E. / 2 6 . No E. M. E. Deomeng Course & M. E. West fore as of & sais and fare pais seed un this 3/5. When your in case waise O.L. read 64.7 at uns of wat at

Trom of un til 8 Am Gunerally Cloudy Nogy dight Sariable airs during finish Lowr, Then gentle breege from N. by E. Preshening and Lauling to n.n. m. by end of Wah of, alt 5, 20 Det fare an off Daie no fare sail. Al 690 Det Hafrails as Haf gallenteails, Course 6. n. E. Last hour Leading ct. J. Dehutu From 8 Am Un Xil Mendian dient le. D. M. Generally Claudy. Nazy. Moderate breeze from North first Low Shifting Duddenly to M.E. by E. Then to Each, At 900 Called all Lands & furled all Dquare Pail no Langed lowne to 8. M. E. St 919. Year in fare and aft sail, At 933 Seat to general quarters bathery ready in obser Decured in min 2 sen Gamen ed magazine and while room flood cocks, doing your look on "no electrical of francis all in Jead Londition. At 119: Changed Course to 7. 6. by E. /2 C. moderato sea, under steam in Very Bailer's at end of water on laure n.C. Ly E. 1/2 E. Mod. sea. Maltoggatt

From meridian until of Mr. Then er aley Claudy not lazy Weather unseltled in affeur ence Dandoli 3/2 mos to whife Greege from Cail in creasing to fresh weege latter fact in maderate made mederate un creasing thea from Each, Ship Letching low order ably linder sheam on Bure " N. E. Ly. E. /2 6. Attend of a Japaneare Bank facus of sering to D' and & " furthing men Good viole to main J. g. yard Dent Somn Lat gallent yards at one aceaen

Dorom & len Lie 6 PM

Althure Stone Enrigh. West.

Dloudy W look, Dhiff decreasing mod breeze from Ent. At \$45 Clongs

Course to N.E. /2 E. De, Liked land at \$600 on edeather Som and at \$400 on lee Seam Dheaming Pource No. E /2 E. no vaie voet At 445- Komi bare E Sy D. Mad Dea P.S. 55.0 Kennigh lb. D.A Paol and Claudy. Land Low rainy. Moderate breeze from E. by A. Du no wend maderating during watch. At 620 Dugther Land ahead. At 670 Dugth of Omaione light bearing n. m. Ah 700 : Dighted a flaged white light bearing about & n. & from the topmark Crantres. At 64.8 Changes lourae to no E. Ly. E./2 6. O. 2. 5-9. 6 Mh 7: 40 8. 4. 8. O. L. 13. 25 VH 40 E. /27. P.L. 62.3. A. Teohilu From 8 Om. Un Xil Milmight of eury les. o. Course to E. m. E./2 E. At 1006 to E. M. E. M. 10. 28. Lo M. E. By E. and at 1007. Xo A. E. Deglithed Care Ireans light at 89%. At end of watch Rock Daland light Eare (P.D.) Dom. Ey, M. /2 m. This head n.E. alt 1108. Rouse Daland Light Bone (L.O.) A. M. Such aut 1/4 miles My Moggatt Enseyn 26.0.7. Examined and found to be correct. De Callowage & Navigator.

| | | | Reading | | WIND. | | | | BAROME | TER. | TEMI | PERAT | TURE. | State of | | lear hs. | 1 |
|-------|--------|---------|----------------|--------------------------------------|-----------------------------------|--------|-------|---------|-------------------|--------------|-------------------|-------------------|---------------------|---|------------------------------------|------------------------------|---|
| Hour. | Knots. | Tenths. | of Patent Log. | COURSES STEERED by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. att'd. | Air, Dry Bulb. | Air, Wet Bulb. | Waterat Surface. | State of the Weather, by symbols. | Forms of Clouds, by symbols. | Prop. of Cle Sky, in 10th | - |
| A. M. | 6 | 8 | 1.1 | n.C. | M.E. Ey 3. | 3 | | | 29.77 | 63 | 08 | 56 | 64 | 0. 0. 2 | nime | i | , |
| 2 | 4 | 2 | 8.3 | , | 1 | 3 | | | 29.14 | 64 | 58 | 50 | 60 | 0.0.0. | " | 0 | |
| 3 | 7 | 6 | 15,9 | " | m 8.846. | 3-2 | | | 29 14 | | | | | | " | U | |
| 4 | 17 | 7 | 23.6 | " | m. E. | 2 | | | 29.74 | 63 | 58 | 56 | 62 | 0. 0. | nimh Dum ph | 0 | |
| 5 | 1204 | 36- | 20 9 | m.e.4/46 | " | 2 | | | 29.74 | 64 | 09. | 56 | 62 | 8.0,3 | gom phi | 1 | |
| 6 | y | 7 | 38 7 | m.E. | " | 2 | | | 29.78 | 62 | 58 | 56 | 62 | " | " | 1 | |
| 7 | 12 | 8 | 41.10 | m by m | 4 | 2 | | | 29.79 | | | | | | " | 1 | |
| 8 | 4 | 2 | 54.0 | n.3/4 m | " | 3 | | | 29.80 | 62 | 5-8 | 56. | 62 | ,, | ens Ohr | 44 | 1 |
| 9 | 6 | 0 | 60.0 | Dixonding in Per | " | 3 | | | 29.75 | | | | | , | " | 0 | 1 |
| 10 | 002 | 080 | 61,6 | Bm E | " | 3 | | | 29.78 | | | | | , | " | 4 | |
| 11 | | | 60,0 | 14 | " | 2 | | | 29.48 | | | | | " | , | 3 | 1 |
| Noon. | | | | " | 4 | 2 | | | 2978 | | | | | , | 1 | 1 | |

| Course and distance | made good since preceding noon by observat | tions, | knots. | | tenths. | |
|---------------------|--|---------------------|--------|-------|------------|--|
| | (Latitude by D. R. | | • | , | " | |
| | Longitude by D. R. | | 0 | , | " | |
| Position at Noon: | 1 | • | | , | " | |
| | Longitude by chronometer from Forenoon | n Observations of ⊙ | 0 | , | " | |
| | (Latitude by | | • | , | " | |
| Position at 8 a. m. | Longitude by | | • | , | " | |
| | (Latitude by | | • | , | " | |
| Position at 8 P. M. | Longitude by | | • | , | " | |
| Current during the | time, knots tenths per hour | r, setting to the | | | | |
| | ompass by Amplitude o observed at Sunrise, | | 0 | , | " | |
| | ompass by Amplitude o observed at Sunset, | " | 0 | , | " | |
| | ompass by Azimuth ⊙ observed at | " | | , | " | |
| | ompass by Azimuth O observed at | 4 | | , | " | |
| | ring the preceding 24 hours, | | (| 35 | v gallons. | |
| Water | during the preceding 24 hours, | | | | " | |
| | n hand fit for use at Noon, | | 2 | 20 | io " | |
| | ing the preceding 24 hours, | | 18 to | ns 20 | 80 lbs. | |
| Coal remaining on l | | | | | 24 " | |

| P.M. 1 | ". |
|---|----|
| 2 " " " " " " " " " " " " " " " " " " " | ". |
| | |
| 1 9 6. Ley 6. M. E. Ly 6. 2 29.75 65 59 " | v |
| D . \(\sigma' \) | |
| 5 C. Ly. M. E. Ly M. 2 29.7565 53 52 | - |
| 6 29.18646255 | " |
| 6. M. E 6. M. E a 29.76 64 61 06 " " 0 | " |
| 8 3.6. " 2 ,29.77.64.61 56 " " 0 | |
| 9 n.n. E. n.n. C. 2 29.79 63 60 56 . " | |
| 10 " 2 298068 39 35 " | |
| 11 Month 2 294968 58 54 " 0 | - |
| Mid. 29.7862 56 03. 8.0.3. " 0 | |

, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Lammen as W linkil of Am Overcust With Cum and nimb Clouds Raining forst Your Ad druggling afterwards until tack Lour. Light to gentle bruge from n. E by no smooth Dea with long ground swell the 300 n. or Lain't of Vries Doland Ears Obeam (Xe) D. E. OL 13% It 240 lack Dight of Rock island light bearing (f.C.) Dn/ m. Under skeam alone A Chamiston Thom of lendie 8 Am Placedy, Light Erecze from D.E. Ah of 20 Dighted Sugami light Scaring n.E./4 E. Changedes Course then to No. E. 3/4 E. At 6 . Changed to M. E. Remain Ser of Watch Dreaming up Keddor Bay. Poptain or navigator at the long no Daie set smooth seen 54.

From 8 Am Un til Meri Sian Generally Claudy. Light to gentle breeze M.E. Standing in far anchorage in the Kurbar of Yaxo Loma. At 800 Crossed tox gallent yardo At good explany 8 of numbers with the Flageriy Broavery, At 9 50 made Interegatory sig 1211. Broavery anowered 1244. My 940 an chared. Beared ship 4/4 futtom wall battom, 30 fattom o on each chain English Lahola light searing to (x.c) w. Eng store Flagstoff, D. 48. M. Light whip 6. 1 6 16. Lanced furis. Dommanding Officer made an afficial Visit to the Branklyn Monocaey Received hier from Comog offer German Sun Soak Dekin A.A. Ledunu Thip Drft. 13' ford. 15 " oft. From Meridean sendied 4 PM. Leur 26.00 A. Overcand Claudy and Logy. Light Greeze from n. E " n. E. Ey. E. Sent on afficer to Stonk Comos offer of N.B. M. D. Rahler for this mornings Kisit. NaistEd out Pheam Buther, gat up to hearn not found her to wark well. Exercised & O. B. Pouronero for fully munules. Clear Lauras Man Abygatt From of lendie 8 Pm. Carega Clean, Light Ereeze horom E. n. E. and E. Ey M. Al Dundown Dent dom Let gallient yards to undert Lox gallent Dails, Broak lyn marking 6/43. Plear Lawre is. B. M. w. Leander Rome in 3 maar Ed A. F. Seomin From 8 Pon un til Midmight Lead Brown north & no no. E. Dlear Lourse Markoygatt Chough least.

Examined and found to be correct.

De Callor Link & Navigator.

| | | | | | | | - | - | | - | | | | | | | - |
|-------|--------|---------|----------------------|----------------------|-----------------------------------|--------|-------|---------|-------------------|--------------|-------------------|-------------------|---------------------|-----------------------------|---------------------|------------------------------|--------------|
| | | | Reading | | WIND. | | | | BAROME | TER. | TEMI | PERAT | TURE. | State of | Forms of | lear ths. | Sea. |
| Honr. | Knots. | Tenths. | of Patent Log. | by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. att'd. | Air, Dry Bulb. | Air, Wet Bulb. | Waterat Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Cle Sky, in 10th | State of the |
| A. M. | | | | , | | | | | | | | | | 1 | | | |
| 1 | | | | my mi | Herst | / | | | 29.48 | 62 | 56 | 53 | | 5.0.3. | Lune | 4 | 3 |
| 2 | | | | , | , | / | | | 29,78 | | | | | | and ruil | 5 | - |
| 3 | | - | | non Ey m | " | / | | | 29.78 | 6/ | 50 | 52 | | 0.0.3. | 1 0 | 0 | |
| 4 | | | | . , | | 1 | | | 29.71 | 61 | 50 | 52 | | 1,12 | and sha | 0 | |
| 5 | | | . , . | D Sy m | " | 2 | | | 29.76 | 59 | 50 | 57 | | 8.08 | " | 2 | |
| 6 | | | | 3 mm | " | 2 | | | 29.71 | 59 | 52 | 52 | - | , | " | 1 | - |
| 7 | | | | m & m | , | 2 | | | 29.78 | 59 | 00 | 52 | | " | " | 1 | - |
| 8 | | | The second | on on the | , | 2 | | | 29.18 | 60 | 56 | 53 | | | , | 0 | - |
| | | | 13 | month. | " | 1 | | 1 | 29.78 | | | | | 60-1 | .11 | 0 | |
| 9 | | | - | 1 10 - | | 1 | | | 29.78 | | | | | 6,0,3.0 | ,, | 0 | |
| 10 | | | 1 12 | n & sy 6 | " | 1 | | | 29.78 | 2/1 | 5-9 | 40 | | " | " | 0 | H |
| 11 | | | | n. E. | " | / | | - | | | | | | " | | 0 | 1. |
| Noon. | | | | " | " | / | | 133 | 29.79 | 63 | 29 | 50 | | 0.0.34 | 10000 | 0 | 1 |

| Course and distance | made good since preceding noon by observations, | knots. tenths. |
|---------------------|--|----------------|
| | (Latitude by D. R. | 0 / 1/ |
| | Longitude by D. R. | 4 |
| Position at Noon: | Latitude by observations of ⊙ | o " " |
| | Longitude by chronometer from Forenoon Observations of | · o ' " ' ' |
| | (Latitude by | 0 / " |
| Position at 8 a. m. | Longitude by | , , , , |
| 7 | (Latitude by | 0- / // |
| Position at 8 P. M. | Longitude by | 0 1 11 |
| Current during the | time, knots tenths per hour, setting to the | |
| Variation of the Co | ompass by Amplitude ⊙ observed at Sunrise, ship's head | 0 1 . 11 |
| Variation of the Co | ompass by Amplitude ⊙ observed at Sunset, " | 0 / // |
| Variation of the Co | ompass by Azimuth ⊙ observed at " | 0 , " |
| Variation of the Co | ompass by Azimuth ⊙ observed at " | . , " |
| Water expended du | ring the preceding 24 hours, | 4 0 Ogallons. |
| Water | during the preceding 24 hours, | |
| Water remaining or | a hand fit for use at Noon, | 1,800 " |
| Coal consumed duri | ing the preceding 24 hours, | tons 1480 lbs. |
| Coal remaining on | hand at Noon, | 112 "744 " |
| | | |

| P. M. | . 1 | | | | | | - | 1 |
|-------|---------------|----------|-----|------------------|---------|---------|----|----|
| 1 | n. E. Ley 76. | 3. C. | 2 | 24.77 60 59 56 | 0. e. r | 16 mile | 0 | 3 |
| 2 | 76.6. | 2 2 0 | 2 | 2976 60 5755 | , | 4 | 0 | * |
| 3 | n. E. Ly E. | 7.76. | 5 | 29.7609 57 55 | " | " | 0 | 4 |
| 4 | " | north | 3 | 29.7608 0604 | , | " | 0 | - |
| 5 | " | n. Ly E. | 9 | 29.70-09 50-07 | | " | 0 | 40 |
| 6 | 37. 37. C. | 7. 7.6. | | 2974065554 | | " | 0 | * |
| 7 | " | " | 3 | 29.10565654 | , | , | 0 | - |
| 8 | " | , | 3 | 29.79 58 56 54 | | | 0 | * |
| 9 | 76. Ly. G. | . " | 2 | 29.79 58 5-9 5-4 | " | | 0 | 2 |
| 10 | 6.76. 8 | ,, | 2 | 29.76 59 06 07 | | " | | * |
| 11 | | " | 2.3 | 297108 02 54 | , | | 00 | * |
| Mid. | Months | " | 2.3 | 24.1008 50 54 | | " | 0 | 4 |

under the command of Commander 2. 2: Jewell Widnesday May 23,

, U. S. Navy, , 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

| Dammences and undil 4 cAm | |
|--|------------------------|
| Partly Clear Rivor Yart. Overcast of heridar | 16. Plando Pumano Mine |
| Pagy, Light airs from north. Clear Lawso | A. Offerno tone. |
| | M. Comostone. |
| Gram of until 8 cfm Dlandy, Light Energe from north. At 800 k Yards. Brooklyn making signal 6144, Olean Lawree | Enoign C. D. M. |
| Unde Braney making Dional 6/4 4. Olean Lawse | rasses my gattery |
| garor, or the grant of the state of the stat | CA. A Sechury |
| From 8 Am Zentil Meridian | deuch les st. |
| Overcust 91 Logy, west sheary rain last la | eur Light airo from |
| M.E. It Jon Mushered Drew at greather o to ref ET Rised a fallow | o I'm Duyle She |
| Pawder Dis at marines at rifles, Sent Sheet Clair at un be, | 1 Mais Lugare of you |
| Latmand Aday sail. At 10 10 level all Lands to muster it for | 1 Dentence to Date |
| of Dummery Court Markist in the Case of G. A. Williams, 1.C. A whory longine ment in Souble wione on Gread 35' waher & | Par Stirly (30) Say ? |
| fine vistion every fift (5th) day, and to Those (3. months | extra Calice July |
| Rammanding Officer Laid afficient Visito to the Flage of War and Sterman and Brist Bun Loaks Covered on a | sky Japaneae man of. |
| of war no german no Brient Suntante Coecured an of | frecial Kisch forom |
| the Ray Yain of the Japonese man of war Dear Lawren | eno ag coas a |
| | MM Hoygatt |
| From Meridian Entil 4 Pm | Enough Wow |
| Overcast with nem Suo Claude. Lon Lin | une veain dig het to |
| genole brege from 8. n. E. Xo Moust. Damman Sing Officer | delivered new good |
| Wedge with Amo Boro the George Nayer, (B.m.) Cam- | manoring officer of |
| | 11.0.1000000 |
| From of until 8 Om | Cariga Co. P.M. |
| 7.7. E. Olean Lawren | forom n. Ly & and |
| 11.7.6. Cellar Lawron | millougatt |
| From 8 On undie Mednight | Ensus Us. |
| Overcant With numbers Clouds Rai | ning until last |
| Kow, Light to gentle Erege from A. n.E. Plear Lawre | ser Hall |
| Rowr. Light to gentle Erey: From 1.7.6. Plear Lawre | of ! Tourodord. |
| | Ensign Zlon. |
| | |
| | |
| | |

Examined and found to be correct.

Es Gallowag & Navigator.

| | | | | | WIND. | | | | BAROME' | TER. | TEMI | ERAT | URE. | | | 18. 18. | Sea. |
|------------|--------|---------|---------------------------------|--------------------------------------|--------------------------------|--------|-------|---------|-------------------|--------------|-------------------|-------------------|----------------------|---|------------------------------------|--------------------------------|----------------|
| Hour. | Knots. | Tenths. | Reading of Patent Log. | COURSES STEERED by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. att'd. | Air, Dry Bulb. | Air, Wet Bulb. | Water at Surface. | State of the Weather, by symbols. | Forms of Clouds, by symbols. | Prop. of Clea Sky, in 10ths | State of the S |
| A. M. 1 | | | | North | MA.n. | 4 | | | 29.74 | 157 | J | -54 | - | O.C. 9. | Otew. | 0 | m |
| 2 | | | | " | 1, | 4 | | | 29.73 | 57 | 50 | 54 | - | , | " | 0 | - |
| 3 | | | | N by E. | | 4 | | 1 | 29.73 | 57 | 05 | 53 | | " | 1 | 0 | 2 |
| 4 | | | | | North | 4 | | | 29.73 | 57 | 54 | 03 | | , | 0" | 0 | , |
| 5 | | | | 10. by M. | " | 3 | | | 29.76 | | | | | 6.0.3. | Y nime | 1. 4 | |
| 6 | | | | 1, | , | 2 | | | 29.78 | | | | 4 | " | " | 4 | 0 |
| 7 | | | | ,, | " | 2 | | | 29.79 | | | | - | | Cir Clu | . 05 | - " |
| 8 | | | | north | WW8. | 7 | | | 29.80 | 09 | 09 | 56 | | , | 4 | 1 | |
| 9 | | | | WM. | no no m | 2 | | | 29.81 | 60 | 59 | 17 | | | ,, | 6 | |
| 10 | | | | nnn. | north | 7 | | | 29.81 | | | | | " | | 6 | , |
| 11 | | | | N E. by E. | East | 1 | | | 29.81 | 64 | 64 | 60 | | " | " | 7 | |
| Noon. | | | | 68.6 | 1/6. | 2 | | | 29.80 | 60 | -65 | 60 | | , | , | 8 | " |

| Course and distance made good since preceding noon by observations, | knots. | d | nths. |
|--|--------|-------|----------|
| (Latitude by D. R. | • | , | " |
| Longitude by D. R. | • | , | " |
| Position at Noon: Latitude by observations of ⊙ | 0 | , | " . |
| Longitude by chronometer from Forenoon Observations of ⊙ | • | , | " |
| (Latitude by | • | , | " |
| Position at 8 a. m. Longitude by | • | , | " |
| (Latitude by | • | , | " |
| Position at 8 P. M. Longitude by | • | , | " |
| Current during the time, knots tenths per hour, setting to the | | | |
| Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head | • | , | " |
| Variation of the Compass by Amplitude ⊙ observed at Sunset, " | 0 | , | " |
| Variation of the Compass by Azimuth ⊙ observed at " | | , | " |
| Variation of the Compass by Azimuth ⊙ observed at " | • | , | " |
| Water expended during the preceding 24 hours, | 4 | 400 | gallons. |
| Water during the preceding 24 hours, | | | " |
| Water remaining on hand fit for use at Noon, | 14 | 400 | " |
| Coal consumed during the preceding 24 hours, | //2 · | ns 40 | 7 lbs. |
| Coal remaining on hand at Noon, | 112 . | 34 | 4 " |
| and the state of | | | |

| P. M. | 0 / 0 | 10 | | | 1, | | | |
|-------|-------------|----------|----|-----------------|-------|-----------|----|----|
| 1 | €. 1. 6. | 1,6, | 1 | 29.79 66 65 60 | 6.0.3 | Oir Cum | 17 | 0. |
| 2 | 1. E. by E. | S. S. W. | 3 | 29.79 66 65 60 | ,0 | " | 1 | " |
| 3 | S. S.E. | 0.0.11. | 3 | 29.78 67 6661 | " | Qir Cense | 8 | |
| 4 5 | SE, | " | 3 | 29.78 67 66 62 | | | 8 | " |
| 6 | S.E. by N | 1 | 18 | 29.80 68 66 62 | " | , | 8 | " |
| 7 | 16, | , | 2 | 29.80 67 66 63 | " | , | 8 | |
| 8 | 1", 5 | South | 2 | 29. 81 67 66 63 | 4 | " | 7 | 1 |
| 9 | 1.16. | South | 1 | 79. 83 66 6562 | " | " | 7 | |
| 10 | m'm'm | min.m. | / | 29. 85 66 6462 | , | , | 77 | |
| Mid. | n'n m | ", ", ", | 1 | 29.86 66 62 60 | " | " | 6 | |
| | / | | | | | | | |

under the command of Commander J. J. Jewell Thursday May 24th

, U. S. Navy, , 18 88.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 W.M. until last hour when shifted to Morth. I qually Clear Hawse From 4 until 8 al M. light to guttle breeze from North and M. N. E. Shellow, b. F. b. returned from liberty, drunk and by order of the Commanding Officer was placed under the sentrice charge to sober. At 800 dressed whip rainbow with I lagship. Char Hawse From 8 am until Meridian Eusigh W.S.M. Partly clear with cir. cum. clouds. Hazy, bight and pleasant Light variable airs, to breezes. at 928 went to Fire Quarters. all ready in yours. Secured in min. Eusign High Rodman reported for temporary duty. O. Hice called on board H. M. S. Leander Drawing boilers. Flagship Brooklyn H. W. S. Leander. A. J. M. S. Foods Wood battery fired salutes of M guns at 19.00 un honor of the Queen of Englands buth day. Cross in hause at end of watch. Captain of H. M. S. Leander called. From Meridian until HP. M. Ensign W. S. M. Sentle breeze from S.E. first halfs of watch shifting to, gentle breeze from S.E. M. remainder of watch By order of Commanding Offices released Samuel Abelow C.G.C. from senties charge. Cross in Hawse Starboard chain on top Hy forma From 4 with, 8 P.M. Sewerally clear, bright, and pleasant, Clouds from J.J.M. Gross in harose A Claudatone From 8 PM. until Midnight Eusign W. S. M. blear and pleasant. Light breeze decreasing to Eusign W. S. W. light airs from South first half shifting to light airs from M.N.M. last half Clear hawse!

Examined and found to be correct.

En Galloway Lieut, & Navigator.

trainer LOG of the UNITED STATES poredie the harbers of COURSES STEERED Heel. Ships Head A. M 161618 16. W. by 16. 29.86 6551 59 29.84 6+ 59 5al 2 76 16 W 2984 6H 5954 2 29.89 63 58 64 4 2 2991 635456 No W. W. 76 9 3996635466 2 16 W 2995635864 No W. by K. 9 3995646059 8 Mby.W. 3496 6564 62 898 3994646663 10 9 9 39 gal 69 64 6st 11 2995696868 Noon. Course and distance made good since preceding noon by observations, tenths. Latitude by D. R. Longitude by D. R. Position at Noon: Latitude by observations of ⊙ Longitude by chronometer from Forenoon Observations of ⊙ (Latitude by Position at 8 a. m. Longitude by (Latitude by Position at 8 P. M. Longitude by Current during the time, knots tenths per hour, setting to the Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head Variation of the Compass by Amplitude ⊙ observed at Sunset, Variation of the Compass by Azimuth ⊙ observed at Variation of the Compass by Azimuth ⊙ observed at Water expended during the preceding 24 hours, during the preceding 24 hours, Water remaining on hand fit for use at Noon, Coal consumed during the preceding 24 hours, / tons 920) lbs. 111 " 24 " Coal remaining on hand at Noon, P. M. 3995106964 beg cumetr 299841 4060 9 by w 2990111/64 Touch of wy co. 9 646 3 2988W24165 , by w 2 2988424065 duby of 2 29.88414061 9, dw. 3 31884/6963 4. 6y ld 2990406964 ggw. bg/ nmg 10 11 3991406964 9. w.by w. 10 29.94406961 W.gw. 2 29.96696863 11 W. by 9 of by w 39.9686463 Mid.

under the command of Junuayer J. J. June J. Jewell Friday May 25th , U. S. Navy, , 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Journey doury Kay, Fight brug from K. K. C. blen, hower. f cx & Security Deut le 9% Overcast & Joggy Tot park clearing afterwards but hazy. Clouds cun Vin- cun, Wetratus Fright being place to the Beceived Western to cred 150 the each of fuel beef regetables who else freel trad beleaved beigns bless haves greet horse force VI Koundstone Trouve a M. to Meredian, Clear wares & Stearant Day! Light airs from Cort first hour shifting to light breig from 9 6 by & relucions of water. R. C. Harry, Pars reported his leng of entirtuent expired. at 9.35 runs level of inspected at quarters. The Word Brookly find a callet of said of ques English flag at fin blear hangel. Grow Meridian to 4. C.M. bush a pleasant. Fight to great bruge from 996 to 9900 Tree in harred starboard chain on rope Transferred to a 99 Brookeys the following want Poty Offices, apprentices general & Tununary such Hartis Prisoners: & Ludson, C. Sop, I. P. Presel arus Gr. Richards, Gas, Q. J. Barrott, Lais, R. W. Phillips Jair & Hankunst, Jair, J. Buth Jar, 14 Fint, Jars, Marty Con & Jodan, dars a Clotting, Jais, & Rofferen, Jais, U.g. News, Jais, Joseph, Jais, a Commer, 19 9 J. H. Newitt Fass, Ga Levigary Jais, N. J. M. Take, on R. l. Heroup, Jais, le Howard, Jim, R. J. Februck, Jas. Thouts, Jais, J. Schipperus, Jais, & Thurties, Jan, J. J. Mallen Sars, to Fund, Jais, Jo Liphing Fais, Physity Jas, Ja Que Jass, W. J. M. Lougheir, Jas, J. F. Grity, Jas, F. Queides, Jas, W. H. Truckfird Jas, F. Stores Jais, No Jarren Jas, W.a. Salle Jais, & Grocker, Sar, & Archier San, & Breden, Fais, & Millians, Jais, Low M. Baint JAM. W. C. Bouwer Bn. & S. Wall Par. 9. 6 M. Prisouer & Jaidles 150, W. M. Fartra Jais, E. Derbois Ma & V. Jospey V.M. J. G.M. Prisoner J. Williams, 15a Novines from USS Brookly pluing Sea, b & audroson, Sea, W. N. Harand, OS, J. B. Noughety, O.S, J. Raminy Odes, North gra, & Presel, Sea, J. Ramige Jaffenberg, Od; S. Miela, Od; Wa Juid, Sea, M. Sean, Sea; & Enternen, Sea; & Jurgens, Sea, J. Thus Sea; F. allan Br. G. Caning arter, P. M. & J. W look My from the Moureauf P. Deickrung Sto, U. Odragusty, Tea, A. F.G. Turner ober; C. Haling, Es, J. F. Pillington Lass; Co Lerlen Oda. Gulieted for the course to following named enen: - H. D. Sullow, Sto, N. Thrilman ote, IF Colis, Ot; Charleng, In; T. Sarlburg, See; Hickards, Ober, S. Petteren, Olea, A. F. Elgr, Oder; Ga. Derfert Gen. afr Sarled fine offer distribuig. Truy Stry 8. xeuf Wo! Topqueaut fand. I'm in hourse, Starboard Aling on top Districting. telear Distilling. Cross in hairs chartered chair ou top. Examined and found to be correct. Palloway Lient & Navigetor.

LOG of the United States

Log of the United States

| Log of the United States | Log of Patent Log | Log of Patent Log | Log of Patent Log of Patent Log | Direction by Standard | Direction by Standard | Compass | Log of Patent Log of Patent

| | 7.0 | | Reading | 1 | WIND. | | | | PEROMET | ER. T | EMPE | RATURE. | State of | Forms of | loar ths. | Seq. |
|-------|------|------|----------------------|-------------------------------------|--------------------------------|--------|-------|--------|---------------------|-------|--------|------------------------------|-----------------------------|---------------------|--------------|-----------|
| - | ots. | ths. | of Patent Log. | COURSE STEERED by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | seway, | Height I in inches. | Ther. | nallb. | Bulb. Waterat Surface. | the Weather, by symbols. | Clouds, by symbols. | op. of C | to of the |
| Hour. | Kni | Ten | | Thips head | | Fo | H | 2 | | 7 | 2 3 | - 32 | - | | Skr | Sto |
| A. M. | | | | gen g | du | 0 | | | 60.00 | ,, | /// | | han | | 0 | a |
| 1 | | | | 876 | W. | , | | | 29.93 | 64 6 | 9 96 | 4 | beg. | and st | 9 | 1 |
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| 8 | | | | Mul. | , | 0 | | | 29.96 | 646 | 650 | 63 | 4 | 9 | 8 | , 4 |
| 9 | | | | gw. | "/2 | 0 | | | 29.96 | | | | | , | 14 | 9 |
| 10 | | | | 9 64 W. | 96 | 2 | | | 29.984 | 106 | 19 | 66 | 9 | , | 4 | 4 |
| 11 | | | | , | , | 2 | | | 39.98 | | | | , | , | 8 | " |
| Noon. | | | | , | , | 2 | | | 29.99 | | | | | , | 8 | " |
| 1 | 10 | | 1 | | | 1 | | Della | | | | | | | | |

| Course and distance | made good since preceding noon by observa | tions, | knots. | tenths. |
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| | (Latitude by D. R. | | 0 | , " |
| | Longitude by D. R. | | • | , ,, |
| Position at Noon: | Latitude by observations of ⊙ | | • | , ,, |
| | Longitude by chronometer from Forenco | n Observations of ⊙ | • | , " |
| | (Latitude by | | • | , " |
| Position at 8 a. m. | Longitude by | | | , " |
| | (Latitude by | | | , " |
| Position at 8 P. M. | Longitude by | | | , " |
| Current during the | | ar, setting to the | | |
| | mpass by Amplitude o observed at Sunrise | | • | , 11- |
| | mpass by Amplitude ⊙ observed at Sunset, | | 0 | , " |
| | appass by Azimuth ⊙ observed at | 4 | | , " |
| | mpass by Azimuth ⊙ observed at | u | , / | <i>(</i> , , , , , , , , , , , , , , , , , , , |
| / | ning the preceding 24 hours, | | st | gallons. |
| | titles during the preceding 24 hours | 5, | 140 | A " |
| | hand fit for use at Noon, | | 2, | a) " |
| | ing the preceding 24 hours, | | 2 tons | 2220 lbs. |
| Coal remaining on l | | | 108 " | 44 " |
| | | | | |

| Р. М. | Jujul | 96 9 | 2 | * / | . ad |
|-------|--------------|---------|---------|-----------|--------------|
| 1 | a cy. w. | 7.6. | | 14268 000 | z. ciscus 89 |
| 2 | , | , 8 | | 11-1268 | . 6 |
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| 4 | dia | A 46. | 20004 | 144268 1 | 6 " |
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| 7 | west | Jours = | | 134168 , | " 9, |
| 8 | Howay w. | | | 12/168 , | , 8 " |
| 9 | 16. W. | Cary o | 30034 | 124064 . | 181 |
| 10 | W. 16. 10. | , , | 30044 | 016964 " | " 4" |
| 11 | 11 1 | | 30,000 | 106964 " | |
| Mid. | 16. W. L. K. | , (| 30.000 | 106964 17 | 4. " " |

under the command of Commagnition of Secure , U. S. Navy,

Saturbay May 26th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Communication of Charles of Chesicans & Surje from \$188 V

May bling hourse. Suitabing,

Troub I has & Carly Sugar and Land Fights airs from Hearts

Line Soul Seasons to Contain Surjet Surjet Sairs from Hearts

Line Seasons to Contain Surjet Surje

Jujet hay, called bast half. Therty harty returned. Biotilling. These Thaves af 4:55 Hayship war signal Diparatory 5-460. aucunel. applied signal of extention; at 8. love sail to a bourling Duryn a. ?! how & a. M. trs Meritigs. of leleas is pleasant. Calin first hour ther light being from , at 9:10 ains hedding, Brotoselys weating signal 101-1). at 11. hipet down aired bedding, Brooklyn weaking signal (2000) " da H. En Jurled Rail, Brookelyn weaking dignas (4826). Clear Knewel. Placed J. leastains, Ogler, widen sentry's change to await further acting of levuewander for being orwell on duty. Trouv Heart ins to It I the ains & bruge from It?

brock if hawse, from chain on hops. Districting. mathought of the cs. A. Dedruty Trouve of the S. P. High brugg from Jungs & Jos. Lieus with Distribuy. Description Salus belear house

Examined and found to be correct.

ED Calloway Navigator.

6 mestogast

| | | | Reading | | WIND. | | | | BAROMETER. TEMP | PERATURE. | State of | Forms of | lear ths. | Sea. |
|-------|--------|---------|----------------------|-------------------------------------|-----------------------------------|--------|-------|---------|--------------------------------|--|-----------------------------|----------|--------------------------|--------------|
| Hour. | Knots, | Tenths. | of Patent Log. | OURSES STEERED by Standard Compass. | Direction by Standard Compass. | Porce. | Heel, | Leeway. | Height in inches. Ther. att'd. | Air, Wet Bulb, Waterat Surface. | the Weather, by symbols. | | Prop. of C Sky, in 10 | State of the |
| A. M. | | | | N.N.W | Calm | 0 | | | 30,066968 | 66 | 0,0.3. | Cun | 10 | d |
| 2 | | | | " | " | 0 | | | 30,07 67 68 | 66 | V | | | |
| 3 | | | | | 4 | 0 | | 100 | 30,07 67 68 | 66 | | - | 0 | , |
| 4 | | | | north, | N.E. | 1 | | | 30086866 | 63 | - | | 0 | 4 |
| 5 | | | | n.n. W. | " | 2 | | | 30,096660 | 62 | - 1 | | 0 | |
| 6 | | | | north | | 3 | | 13 | 30,10 66 64 | 162 | b. c. z. | Cum, | 1 | |
| 7 | | | | 4 | N.N.E. | 3 | | | 30, 11 67 60 | | | | 3 | |
| 8 | | | | MNE. | | 3 | | | 30, 126766 | 41 | - | | | |
| 9 | | | | n.n.E. | | U | - | | 30,14 68 66 | 62 | 0.0.3. | & Strat, | 0 | |
| 10 | | | | | , | 2 | | | 30.146868 | 63 | | | | |
| 11 | | | | N. E. by W. | 7 | 1 | | | 30.137068 | 64 | | | 0 | |
| Noon. | | | | . / | , | 1 | | | 30.157069 | | " | | 0 | - |

| * Course and distance made good since preceding noon by of | bservations, | knots. | tenth | ıs. |
|--|---------------------------|--------|-------|---------|
| (Latitude by D. R. | | | , ,, | |
| Longitude by D. R. | | 0 | , " | |
| Position at Noon: { Latitude by observations of ⊙ | | 0 | , " | |
| Longitude by chronometer from Fo | orenoon Observations of @ | | , ,, | |
| (Latitude by | Action Occuration to C | • | , " | |
| Position at 8 a. m. Longitude by | | | , , | |
| (Latitude by | | 0 | , , | |
| Position at 8 P. M. Longitude by | | 0 | , , | |
| | er hour, setting to the | | | |
| Variation of the Compass by Amplitude ⊙ observed at S | | | , , | |
| Variation of the Compass by Amplitude ⊙ observed at S | | | , , | |
| Variation of the Composs by Azimuth ⊙ observed at | и | | , , | , |
| Variation of the Compass by Azimuth ⊙ observed at | α | ۰ | , , | , |
| Water expended during the preceding 24 hours, | | | 40 og | allons. |
| Water Sistilles during the preceding 24 | hours, | 1 | 400 | 44 |
| Water remaining on hand fit for use at Noon, | | 2 | 750 | ti . |
| Coal consumed during the preceding 24 hours, | | / to | 750 | 7 lbs. |
| Coal remaining on hand at Noon, | | 106 | | |
| | | | | |

| Р. М. | -10 | 41 0 | | | | | | 1 |
|-------|--------------|------------|---|---------------|---------|------------|---|----|
| 1 | N. E. by N | North | 2 | 30.10 7269 65 | 0.0.3. | Ouw, | 0 | D. |
| 2 | 1181 | , | 1 | 30,09737067 | | | 0 | - |
| 3 | 10.0, by 10. | | 1 | 30.06737168 | " | 4 | 0 | |
| 4 | 6/1,00 | N.Ce. | / | 30,04727168 | , | * | 0 | |
| 5 | East | S.E. By U. | 1 | 30.02727168 | 4 | " | 0 | , |
| 6 | 1,80, | " | 1 | 30.02727066 | 4 | " | 0 | |
| 7 | 1.1.6. | S.M. | 1 | 30,01706966 | " | + | 0 | 4 |
| 8 | , 1 | 141 00 | 1 | 30,00696764 | " | " | | |
| 9 | S. E. by S. | D. by 77. | 2 | 30,00706765 | ", | , | 0 | ' |
| 10 | 8, 86, | 0, | 2 | 19.98766865 | , | Quest Must | 0 | 4 |
| 11 | A.E. by V. | " | 2 | 29.96706865 | | Mush | 0 | 3 |
| Mid. | SSE, | " | 2 | 79.96 706865 | 0.C. V. | | 0 | 1 |
| | | | | | | | | |

under the command of I. J. Sewell Commander. , U. S. Navy, , 18 8 8. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Commences and until H W.M.,
Vercast with Cumulus Clouds. Hazy Oalm till
last hour when light airs came out from N.E. Clear hawse
stopped distilling at 100

Susign He Allaundtone. From 4 to 8 R.M. Eutle breeze from NE, & N. N.E. Clear hawse. Placed Magnire 20. F. under Senties Charge to await his getting sober, he having returned from liberty mades the influence of lignor. Lieut. W. S. W. From 8 to Meridiace

Sloudy, Hazy. Light airs to gruthe breeze from NN.8.

at 9.30 the Commanding Officer inspected this and brew at quarters. By order of the Commanding officer, released & McGines N.G. from the Senties charge, he being sober. Clear hawse. MB. Hoggatt S. N. From Meridian to 4 P.M. Ourign U. S. N. Overcust with Cumulus Clouds Hazy. Bight Light airs to breeze from Morth till last hour, when light airs came out from SE. Clear hawse. Eusign W.S.M. From H to 8 P. M. Light airs from S. E. by S. to S. M. Oross in howse, starboard Chain on toto. Eusign W.S. W. From 8 PM to Midnight.

Overcast with Euw, and nimb, clouds, Hazy till last hour when raining. Sight breeze from S. by W. Gross in hourse at end of watch Herauntone. Eusign W. S. W.

Examined and found to be correct.

En Galloway Navigator.

| | £4. | bs. | Reading of Patent Log. | COURSES STEERED by Standard Compass. | WIND. Direction by Standard | Force. | 31. | way. | Height Ther. And Height in inches. | State of the Weather, by symbols. | Forms of Clouds, by symbols. | Prop. of Clear Sky, in 10ths. | State of the Sea. |
|-------|-------|--------|------------------------|---|------------------------------|--------|-------|------|---|---|------------------------------------|----------------------------------|-------------------|
| Hour. | Knots | Tenths | 2008. | Ships Head. | Compass. | For | Heel. | Lec | W. B. | | | Pro | Stal |
| A. M. | | | | S.E. by S. | S. M. | 2 | | | 29,93 71 67 60 | 0.0N | Quue. | 6 | S. |
| 2 | | | | ./ | ,, | 7 | | | 29,90706765 | " | " | 0 | 4 |
| 3 | | | | 8.8 | N by W. | 2 | | | 29,88706765 | 0.0, | " | 0. | , |
| 4 | | | | S.E. by 6 | , , | 2 | | | 29.8770 67 65 | " | " | 0 | , |
| 5 | | | | E 84 S. | S. W. | 1 | | | 29.84706765 | 00/1 | " | 0 | 4 |
| 6 | | | | W by E. | 1 by 6 | 1 | | | 29.83706765 | 0,0,0, | " | 0 | 7 |
| 7 | | | | n.m. | Calm | 0 | | | 29.80706765 | " | " | 0 | |
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| 10 | | | | n nin | " | 1 | | | 29,706765-64 | 1 | " | 0 | 4 |
| 11 | | | | north | North | 1 | | | 29.67676564 | " | " | 0 | " |
| Noon. | | | | & W. &. | 11.8 | 2 | | | 29.63676564 | , | " | 0 | 1 |

| Course and distance made good since preceding noon by observations, | knots. | tenths. | |
|--|--------|----------------------|-------|
| (Latitude by D. R. | 0 | , ,, | SHANE |
| Longitude by D. R. | o | , " | |
| Position at Noon: { Latitude by observations of ⊙ | 0 | , ,, | |
| Longitude by chronometer from Forenoon Observations of ⊙ | • | , " | |
| (Latitude by | • | , ,, | |
| Position at 8 a. m. Longitude by | • | , ,, | |
| | 0 | , ,, | |
| Position at 8 P. M. Latitude by Longitude by | 0 | , " | |
| Current during the time, knots tenths per hour, setting to the | | | |
| Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head | • | , " | |
| Variation of the Compass by Amplitude ⊙ observed at Sunset, " | • | , " | |
| Variation of the Compass by Azimuth ⊙ observed at " | • | , ,, | |
| Variation of the Compass by Azimuth ⊙ observed at " | · | ', " | |
| Water expended during the preceding 24 hours, | | 400 gallons. | |
| Water during the preceding 24 hours, | | " | |
| Water remaining on hand fit for use at Noon, | 2 | 350 " | |
| Coal consumed during the preceding 24 hours, | to | ons 1480 lbs. | |
| Coal remaining on hand at Noon, | 105 | ons 1480 lbs. "1644" | |
| | | | |

| D.M. | | | | | | | | |
|-------|----|------------|--------|------|----------------|----------|---------|----|
| P. M. | | N & by & | north | 1 | 29.59 67 65 64 | 0.0/1. | Neine | ON |
| 2 | | East | Calm | 0 | 79.56686665 | 0, e, d. | X Himb. | 0 |
| 3 | | E. By S. | f hal | 0 | 29.53676665 | | " | 0 |
| 4 | | 16 | S.M. | , | 29.5268 66 65 | | Ori Cum | 6 |
| 5 | | S.E. by 8 | Calu | 0 | 29.527069 65 | | | 1 |
| 6 | | M.E. by E. | " | 0 | 29.53 68 67 66 | " | Quint. | 6 |
| 7 | | , | , | 0 | 29.52686766 | 0.0,N. | | 0 |
| 8 | | , " | 8.8 | 0 | 29.51 68 67 66 | " | | 0 |
| 9 | | 5/6/ | | 2 | 19.49 6660 64 | 0.0.d. | | 0 |
| 10 | | 11/6 | South! | 1 | 29.48 66 66 65 | 0,0, | | 6 |
| 11 | | J.E. by | . ,, | 1 | 29.47666564 | " | | 0 |
| Mid. | | | ,, | / | 79.47 66 66 65 | | | 0 |
| | 11 | | | 1. 1 | | | | |

under the command of Commander J. F. Sewell Monday May 78th , U. S. Navy, , 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Sommences "Is until It A. M! A. by M. Cross in hawse Eusign W. S. W. From H to 8 R.M.

The concast, Joggy and raining, Calw, and light airs from S. W.

and Stel. Recd. for usine his pay Department 80 lbs fresh bread. William Branagaw returned from liberty so mins, late and druluk. By order of the Commanding Offices placed their under Sentries charge to sober, Clas hause Busign W. S. W. From 8 N. m to Mendian Overcast with nimbus clouds. Continual heavy rain, Sight and to breeze from N.N.E., to N.E. H. J. S. M. S. Att left the harbor Clear halvee At Claunstone. Eusign U.S. W. From Meridian to 4 P.M. Pariable light airs and calcu: By order of Commanding Officer, I Costaine (viles) was confined in double Irone for ten days, for being drunk on duty. I Hang. (P.M.) with necessary papers was transferred to this vessel for duty. Cross in house. Eusign U. S. W. Grow 4 to 8 P.M., O viscail with cuw. Ed nineb. clouds. Driggling first "Raining afterwards Al Vannatone. Eusign W. S. W. From 8 9 M. to Midnight Lour: Overcast entire watch: Light aire and breeze from S. by E. Clear harose Augustaman Eusign U. S. W Examined and found to be correct. Lo. Lacloway God Navigator.

| , | 30 | Rate, |
|---|----|-------|
| | | |

| | | | Reading | | WIND. | | | | BAROMETER | . TEM | PERAT | TURE. | State of | Forms of | lear ths. | e Sea. |
|-------|--------|---------|----------------------|--------------|-----------------------------------|--------|-------|---------|-------------------|-------------------|-------------------|----------------------|-----------------------------|---------------------|--------------------------------|--------------|
| Hour. | Knots. | Tenths. | of Patent Log. | Ships Head | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Air, Dry Bulb. | Air, Wet Bulb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Cles Sky, in 10ths | State of the |
| A. M. | | | | North | North | , | | | 29,476; | 76; | 7 60 | - | 0.0, | Que , | 0 | 5 |
| 2 | | | | N.E. by n. | , " | 1 | | | 29.47 6; | | | | , | " | 0 | 7 |
| 3 | | | | n by E | Calm | 0 | | | 29.476 | 7 64 | 60 | | " | , . | 0 | 1, |
| 4 | | | | North | m by n | 1 | | | 29.48 6; | 7 66 | 65 | | " | 0.0 | 0 | - |
| 5 | 25 | | | N. W. by N. | Calm | 0 | | | 79.00 60 | 8 60 | 65 | | b. e. z. | rous. | , | " |
| 6 | | | | N. N. W. | " | 0 | | | 29.0361 | 86 | 665 | | " | 4 | 1 | 5 |
| 7 | | | | 2021 | " | 0 | | | 29.55 60 | 8 6 | 766 | | " | 4 | 4 | " |
| 8 | | | | N. W. by Nr. | | 0 | | 1 | 29,556 | 86% | 766 | | " | " | 2 | 7 |
| 9 | | | | North. | , | 1 | | 100 | 29.60 7 | 660 | 8 66 | | 6.0. | 1 | 4 | |
| 19 | , | | | 8. V. 8. | 1.6, | 1 | | | 29.627 | 060 | 8 66 | | " | " | 3 | |
| 11- | | | 375 | " | East | 1 | | | 29.637 | 16 | 96% | 7 | | " | 5 | |
| Noon. | - | - | | & N. E. | " | 1 | | | 29.657 | 17 | 068 | | b. 0 p. | , | 4 | " |

| Course and distance made good since preceding noon by observat | ions, | knots. | | tenths. | |
|--|-------------------|--------|------|------------|--|
| (Latitude by D. R. | | 0 | , | " | |
| Longitude by D. R. | | 0 | , | " | |
| Position at Noon: { Latitude by observations of ⊙ | | ۰ | , | " | |
| Longitude by chronometer from Forenoon | Observations of ⊙ | 0 | , | " | |
| (Latitude by | | • | , | " | |
| Position at 8 a. m. Longitude by | | 0 | , | " | |
| (Latitude by | | | , | " | |
| Position at 8 P. M. Langitude by | | 0 | , | " | |
| Current during the time, knots tenths per hour | r, setting to the | | | | |
| Variation of the Compass by Amplitude ⊙ observed at Sunrise, | ship's head | 0 | , | " | |
| Variation of the Compass by Amplitude ⊙ observed at Sunset, | " | 0 | , | " | |
| Variation of the Compass by Azimuth ⊙ observed at | " | • | , | " | |
| Variation of the Compass by Azimuth ⊙ observed at | " | • | , | " | |
| Water expended during the preceding 24 hours, | | , | 3.50 |) gallons. | |
| Water during the preceding 24 hours | , | | | " | |
| Water remaining on hand fit for use at Noon, | | 2 | 00 | 0 " | |
| Coal consumed during the preceding 24 hours, | | to | ns 4 | 00 lbs. | |
| Coal remaining on hand at Noon, | | 105 | " 19 | 44 " | |
| b on man at 2 and a | | 100 | 10 | 4 4 | |

| P. M. | | , - | | | | | | , |
|-------|----------------------|---------|----|----------------|--------|----------|----|----|
| 1 | €. 1. 8. | E.S. E. | 12 | 2965707167 | 6.0.9. | Cin | 4 | 0. |
| 2 | | " | -1 | 29.67 71 71 68 | , 1 | 1 | 7 | |
| 3 | , " | " | 1 | 29.69 72 72 69 | ", | | 8 | 7 |
| 4 | S. E. by E | ,, | , | 29.65-72 77 69 | ,, | | | 1 |
| 5 | S. E. by E. | , , | , | 29.71 7272 69 | | Gir Grew | 8 | , |
| 6 | " | 1.1.8. | , | 29.71 72 7269 | 4 | " | 8 | 4 |
| 7 | , ,, | | 1 | 29.72.72.72.69 | " | Cum | 6 | 10 |
| 8 | S. S. E. n. n. n. | S. W. | , | 2974727269 | " | " | 7 | " |
| 9 | n.n.n. | , | 1 | 29.80717269 | " | " | U | " |
| 10 | 11 | " | 1 | 29.80 717169 | , | " | 6 | * |
| 11 | 1,78 | a " o | 2 | 29.81 7070 69 | 4 | " | 1 | "- |
| Mid. | n.n.E. | & by n. | 2 | 29.81 70 70 68 | 6. 3. | None | 10 | " |
| | | | | 1/ 1/ 1 | 0 | | | |

, U. S. Navy, , 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and justil 4. A. M. light airs from W. by M. last hour blear Hawse. The Cusign U. S. M. Trong 4 to 8 a.M. Clouds Circum and Maintens. Called and pleasant. Received and usined to crew 85 lbs fresh bread! Clear harvese. at. 7 40 Flag Ship made signal S. Gard 3318 Flag thip made at 700 prep. 5486 Then general signal 5486. Loosed sail to a bowline at 8 o clock. We Managaw (CH) bring sober was released from secutives charges, by order of Commedy Officer.

From 8 D. M. to Meridian Ensign N. S. M. fair and more signal at 9-30 hade eick report to 13 norther "2" answered and tracked sail at 1130 Received on board in Day more tree sets the following at the second of the soul of the following at the second of the second of the second of the following at the second of the secon Brooklyw, "" auswered and furled sail at 1130 Received on board in paymasters sept. the following stores .-1000 lls Flour, 800 lbs Pork 400 lbs Buf. 370 lbs Rice 200 les dried fruit 30 Ge molanes 200 lbs butter, 200 lbs Canned meato. 365 lle bacon 500 lbs Coffe, 95 lbs tea, 40 galo Vinegar, 1350 lle Sugar 500 lle Pickles, 700 lle Caumed orgetables, 1000 lbs Loap. 32 galo. Peas. blear hawse. The following changes in nates Lea) rated Coxu. C.O. Karlion (Sea) rated Coxu. J. Sucin (Sea) rated O. F. C., a. J. Surner (Sds) rated C. Top. W. Sullivan (Lds) rated C. F. Surner (Lds) rated C. S. P. Seickman (Lds) rated (O. O.) C. Beyer (C. H) rated armores. From Meridian to 4 P.M. Ensign U.S. M. Clear warm at pleasant Huzy, Light airs from & S.E. A. S. Harned (O. O.) Es It. allen (PM) were brought on board by the U. Marshal, and a offices, were placed under sentry's charge to await further action Clear hawse It formed From 4 to 8 P. M. Eusege from S. S. E. to S. W. Eusege U. D. M. Aughtoduran. from Eby M. Expended two ten pound charges of powder and two primers. Eusign U. S. H.

Examined and found to be correct.

Lieut Edward Reint Edward and Charingator.

| | | | Reading | | WENT. | | | | BAROMETE | | | | | State of | Forms of | Clear Othe, | 1 |
|-------|---------|---------|----------------------|-------------|-----------------------------------|--------|-------|---------|-----------|-----|--------------------|-------------------|---------|-----------------------------|------------------------|--------------------|---|
| Hour. | Minota. | Tenthe. | of Patent Log. | Milit Head | Direction by Standard Compuss. | Force. | Heel. | Leewny. | Height Th | er. | Air, Dry Bulls. | Air, Wet Bulb. | Waterat | the Weather, by symbols. | Clouds, by symbols. | Prop. of sky, in P | - |
| A. M. | | | | 21. 21. 6. | 11.71.8. | 4 | | | 29.81 7 | 7,1 | 69 | 67 | | 6.c. | Oir. | 9 | |
| 97 | | | | 7. by m | North | 2 | | | 29.877 | 0 | 68 | 66 | | | | 8 | |
| 3 | | | | | 21. by 2%. | 2 | | | 29.827 | 700 | 67 | 66 | | , | | 4 | |
| 4 | - | 1.14 | | | " , | 2 | | | 29.826 | 96 | 66 | 66 | | - | Current | 2 | |
| 5 | 3 | | | | North | 2 | | | 39.807 | 20 | 67 | 66 | | - | Oig Clas | 2 | - |
| 6 | | | | | | 2 | | | 29.867 | 70 | 67 | 60 | - | | 4 | 3 | |
| T | | | | | | 1 | | | 29.879 | 0 | 68 | 66 | | 4 | Cer. | 3 | |
| 8 | | | | 77 | | 1 | | | 2987 | 20 | 68 | 67 | | | Cir Chen | 6. 11 | - |
| 9 | | | | N. E. Ly N. | E. by J. | 2 | | | 29887 | | | | | 6.02 | | 3 | |
| 20 | | | | East | 1, | 2 | | | 29.887 | 73 | 70 | 68 | | ,0 | | 4 | 1 |
| 11 | | | | 816 | | 2 | | | 29.88 1 | 3 | 70 | 69 | | 4 | Ein | 0 | |
| Veen. | | | | 1.8 | | 2 | | | 29887 | | | | | 7 | | 6 | |

| Course and distance | made good since preceding noon by observation | | knots. | tenths. | |
|---------------------|---|------------------|--------|-------------|--|
| | / Latitude lw D. R. | | | , 27 | |
| | Longitude by D. R. | | | , 17 | |
| Position at Noon: | | | | , , | |
| | Longitude by chronometer from Forencon O | bservations of ⊗ | • | , 11 | |
| | (Latitude by | | • | | |
| Position at 8 a. m. | Longitude by | | • | , , | |
| | (Latitude by | | • | | |
| Position at 8 P. M. | Longitude by | | ٠ | . " | |
| Current during the | time, knots tenths per hour, s | etting to the | | | |
| Variation of the Co | omposs by Amplitude @ observed at Sunrise, sh | ip's head | • | , ,, | |
| Variation of the Co | ompass by Amplitude © observed at Sunset, | * | • | , 17 | |
| Variation of the Co | ompass by Azimuth © observed at | * | | , ", | |
| Variation of the Co | ompass by Azimuth © observed at | 4 | • | , " | |
| Water expended du | uring the preceding 24 hours, | | 4 | OO gallons. | |
| Water | during the preceding 24 hours, | | | - | |
| Water regulating of | h hand fit for use at Noon, | | 16 | 00 " | |
| Coul consumed duri | ing the preceding 24 hours, | | | 400 lbs. | |
| Coul remaining on i | hand at Noon, | | 105 " | 844" | |
| | | | | | |

| South 1 29.86767471 " " " " " " " " " " " " " " " " " " " | P. N. | | | | | | | , |
|--|-------|-----------|----------|----------------|---------------|--------|------------|------|
| 2 | 1 | 1. 8. | E. by S. | 2 | 29.87747269 | 6.0.3 | . Bir Bure | 6 8. |
| South 2 29.86 76 74 71 " " 5 . South 2 29.84 77 7571 " Girlow 5 . S. by W. 2 29.85 7473 70 " " 4 . South 2 29.85 727 68 " " 5 . South 2 29.85 727 68 " " 5 . | 2 | | 1.6. | 2 | | " | | 6 , |
| South , 2 29.84797571 " air Ban 5 . S. by W. , 2 29.85747370 " 4. S. by M. 2 29.85747370 " 4. 2 19.85727168 " 5. | 3 | | ,, | V | 29.86767471 | | | 6 . |
| 5. by M. 2 29.85 7473 70 " " bird 5" 4, 85 7473 70 " " 4, 85 7271 68 " " 5" | 4 | , , | South | 2 | 29.86 76 7471 | | | V 2 |
| 5. by M. 2 29.85747370 " " 4, 8 J. by M. 2 29.85727168 " " 5, 9 Jouth 2 29.86727168 " " 7 | 5 | Douth! | + | 2 | | * | 0:0 | 5 . |
| 8 . Doubh 2 29.86 7271 68 " - 5 . 7 2 | 6 | , " | | 2 | | - | | - |
| 3 , Douth V 29.86 72 70 68 . , 7 3 | 1 | J. by 71. | 1:4 | | | * | | |
| the state of the s | 8 | | 1 | - | 29.85 7271 68 | ** | | 40 |
| | , | , / | Douth | - | | | | |
| 30 South " 3 4986716967 " . 5 3 | 30 | | , | and the second | | | | |
| 11 . S. J. W. , 3 29.8670 69 67 S. 3 Now 10. | 11 . | | , | 3 | | 15. 3. | None | 10.0 |
| Mil. 2 2 2985706967 " " 10. | Mid. | 1 | | 2 | 2985706967 | - | | 10. |

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

gentle breeze from M. N. E. Pad M. by M. bleat have Lieut U.S. M. From 4 to 8 x. M. Lieut. U.S. M. Lieut. U.S. M. Cloudy and pleasant; guitle H4 breeze. Received on board in Pay-masters Delot. 107/2 lbs. beet, 107/2 lbs, orgetables and 86 lbs. bread. At 7-25 flag-ship made time and uniform signal grog. pennant 613, Auswered. Eusign U. S. n. From 8 JM to Meridian.

Fair Ed Warm. Light breeze from E. by S. By

order of Commanding Officer released Private allen (U.S.M.C.) And H. D. Harned (O.S.) from Southy's charge. blear hawse Francis. Eusign U. S. M. cross in hawse, starboard chain on top Type Fighterano. Eusign U.S. M. from 8 P.M. to Midinght - Sight to grutte bruge from south. Cross in hawse, starboard chair on top From Meridian to HP.M. Luit U. D. M. Fair & marw. Light breeze from E. by D. To South. The Commander and officers giving an entertainment on board. Clear have

Examined and found to be correct.

Lot Galloway and Navigator.

Leux. U. D. M.

| | | | Reading | | WIND. | | | | BAROME | TER. | ТЕМР | ERAT | URE. | State of | V. | lear hs. | Sea. |
|-------|--------|---------|----------------------|-------------|-----------------------------------|--------|-------|---------|-------------------|--------------|-------------------|-------------------|----------------------|-----------------------------|------------------------------------|----------------------------------|-----------------|
| Hour. | Knots. | Tenths. | of Patent Log. | Slips head. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. att'd. | Air, Dry Bulb. | Air, Wet Bulb. | Water at Surface. | the Weather, by symbols. | Forms of Clouds, by symbols. | Prop. of Clea. Sky, in 10ths. | State of the Se |
| A. M. | | | | S. W. by S. | South | 2 | | | 29.85 | 70 | 68 | 66 | | 6.0.3 | Cis Our | -7 | 8) |
| 2 | | | | S. by M. | * | 2 | | | 29.83 | | | | | , | 1 | 8 | 4 |
| 3 | | | | 1 1 7 | 1 in | 7 | | | 29.82 | | | | | " | " | 0 | , |
| . 5 | 1 | • | - | n.n.n | n. W | 2 | | | 29.82 | | | | | " | Que niais | 0 | " |
| 6 | | | | 1 | " | 2 | | | 29.84 | | | | | " | " | 0 | " |
| 7 | | | | " | * | 1 | | | 29.80 | | | | | 0.0.6 | " | 0 | 7 |
| 8 | | | | n. m. | Month. | 1 | | | 29.86 | | | | | " | " | 0 | , |
| 10 | | | | m.n.m. | balm | 0 | | | 2988 | | | / | | B.C.3. | " | 0 | " |
| 11 | | | | n by s. | " | 0 | | | 29.88 | | - | | | , | a .' | 1 | " |
| Noon. | | | | \ " | Oast. | 1 | | | 29.88 | 73 | 72 | 69 | | 1 | Ori Cum | 4 | |

| Latitude by D. R. Longitude by D. R. Congitude by D. R. Latitude by observations of ⊙ Longitude by chronometer from Forenoon Observations of ⊙ Latitude by Position at 8 a. m. Latitude by Congression of Servations of O Congression of Servation of O Congression of | |
|--|--|
| Position at Noon: Latitude by observations of Longitude by chronometer from Forenoon Observations of '' Longitude by Chronometer from Forenoon Observations of '' Your Position at 8 a. m. | |
| Latitude by observations of ⊙ Longitude by chronometer from Forenoon Observations of ⊙ Latitude by Position at 8 a. m. Latitude by O V V V V V V V V V V V V | |
| Position at 8 a. m. Latitude by Output Position at 8 a. m. | |
| Position at 8 a. m. { | |
| Position at 8 a. m. { | |
| (Longitude by | |
| (Latitude by | |
| Position at 8 P. M. Longitude by | |
| Current during the time, knots tenths per hour, setting to the | |
| Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head | |
| Variation of the Compass by Amplitude ⊙ observed at Sunset, " | |
| Variation of the Compass by Azimuth ⊙ observed at " ° ′ ′′ | |
| Variation of the Compass by Azimuth ⊙ observed at " ° ' " | |
| Water expended during the preceding 24 hours, 3 5 0 gallons. | |
| Water during the preceding 24 hours, | |
| Water remaining on hand fit for use at Noon, /250 " | |
| Coal consumed during the preceding 24 hours, tons # 00 lbs. | |
| Coal consumed during the preceding 24 hours, tons # 00 lbs. Coal remaining on hand at Noon, 105 "444" | |

| P. M. | South | East | | | , |
|-------|----------|--------|---|----------------|------------|
| 1 | 1" 10 | | 2 | 29.86 73 12 70 | 6.0.3 Ein. |
| 2 | 8. 8.8. | 1.6 | 2 | 29.85747370 | , , |
| 3 | 1".1 | South | 2 | 29.80707369 | " " |
| 4 | South | S. SW. | 2 | 29.85757469 | , , |
| 5 | D, by 6. | " | 2 | 29.85 757470 | " " |
| 6 | S, by W. | 14001 | 1 | 29.85 74 72 69 | , , |
| 7 | 8,8.W | 8,7% | / | 29.84747269 | " |
| 8 | Soby 6 | ," , | / | 29.83 73 71 68 | " " |
| 9 | 8. 8. 8 | South | / | 29.85-72 70 68 | 0.0.2. |
| 10 | South. | " | 1 | 29.85727068 | Que Ming |
| 11 | WEST | " | / | 29.85727069 | , " |
| Mid. | W. by M. | " | 1 | 29.8572 70 69 | |
| | | | | | |

under the command of Commander J. J. Jewell Jurisday May 31 st

, U. S. Navy, , 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences Ed until 4 S. M.

Light breeze from South Ed B. S. M. Cross in howse, Starboard chain on top

From Ho 8 AM.

Ousgn U. S. 7

From H to 8 AM.

Overcast and Cloudy. Foggy Light breezes

to light airs from M. M. Cross in hower Haibour chair on top

Received in Pay Dept. for visue to the crew, 86 lbs of bread. At 7.30

Flagship made "Seo". 645. auswered.

From 8 A. M. to Meridian
Eusign U. S. M.

End of Watch. At 9.30 inspected at guarters and Thus drilled Infautry, and Artillery of Battalion. Weighed wet gum cotton and found it in good Condition; also tested gum cotton room flood cock and found it in order. Pross in hawse, starboard chain on top

breeze from East to S. S. W. Hoisted in Seam cutter. Flagship saluted U. D. Minister. Cross in hause, Narboard chain on top.

From 4 to 8 P.M. Busigh U.S. M. Severally Cloudy - Warns. Light aire from S.M. W. bross in hawse, Starboald Chain on Top.

From 8 P. M. to Midinght - Lieux U. S. M. Overkast and harry . Light airs from South. Elbow in hawse, starboard chair on top.

Eusign W. D. M.

Examined and found to be correct.

Colloway and Navigator.

LOG of the United States Steamer Essex" 3 Rate, Moored in the harbor of Yokohama Japan

| | | | Reading | | WIND. | | | | BAROME | TER. | TEMP | ERAT | URE. | State of | Forms of | lear ths. | Sea. |
|-------|--------|---------|----------------------|------------|-----------------------------------|--------|-------|---------|-------------------|--------------|-------------------|-------------------|----------------------|-----------------------------|---------------------|--------------------------------|-----------------|
| Hour. | Knots. | Tenths. | of Patent Log. | Ships Head | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. att'd. | Air, Dry Bulb. | Air, Wet Bulb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Clea Sky, in 10ths | State of the Se |
| 1. M. | | | | n byn. | West | 2 | | | 29.84 | (71 | 69 | 68 | | b.e.z. | Cir Cun | 0 | - |
| 2 | | | | m. Som. | , " | 2 | | | 29,83 | | | | | 1 | 1 | U | |
| 3 | | | | , | J. W. | 2 | | | 29,82 | 170 | 68 | 67 | | " | " | 5 | - |
| 4 | | | | Wby M. | , " | 1 | | | 39,82 | 70 | 68 | 67 | | 0.0,3. | Mineb. | 0 | , |
| 5 | | | | S.M. | 8.8. | 1 | | | 29.81 | 69 | 68 | 67 | 7 | " | " | 0 | |
| 6 | | | | " | " | 1 | | | 29.80 | 69 | 68 | 67 | | " | , | 0 | 1 |
| 7 | | | | M. by S. | West | 1 | | | 29.80 | 70 | 69 | 67 | | " | " | 0 | 1 |
| 8 | | | | M. by 1. | ," | 1 | | | 29.80 | 71 | 69 | 68 | | " | " | 0 | |
| 9 | | | | | S. W. | 1 | | | 29.80 | 71 | 69 | 68 | | 7 | " | 0 | |
| 10 | | | | S. M. | D. S. M. | 2 | | | 29.79 | | | | | 1 | " | 0 | |
| 11 | | | | J. S. M. | " | 2 | | | 2977 | 73 | 372 | 69 | | , | " | 0 | |
| oon. | | | | " | ,, | 2 | | | 29.76 | 73 | 72 | 69 | | " | " | 0 | 1 |

| Course and | d distance made good since preceding noon by observations, | knots. tenths. | |
|-------------|--|-------------------------------|--|
| | (Latitude by D. R. | 0 / // | |
| | Longitude by D. R. | 0 / " | |
| Position a | t Noon: Latitude by observations of ⊙ | • , ", | |
| | Longitude by chronometer from Forenoon Observations of ⊙ | o , , , | |
| 11.NO31 | (Latitude by | 0 / // | |
| Position at | 8 a. m. Longitude by | 0 1 " | |
| | (Latitude by | 0 / // | |
| Position a | t 8 P. M. (Longitude by | 0 , , | |
| Current d | uring the time, knots tenths per hour, setting to the | | |
| Variation | of the Compass by Amplitude ⊙ observed at Sunrise, ship's head | 0 / // | |
| Variation | of the Compass by Amplitude ⊙ observed at Sunset, " | 0 / // | |
| Variation | of the Compass by Azimuth ⊙ observed at " | 0 / // | |
| Variation | of the Compass by Azimuth ⊙ observed at " | 0 , " | |
| Water exp | pended during the preceding 24 hours, | 350 gallons. | |
| Water | during the preceding 24 hours, | " | |
| Water ren | naining on hand fit for use at Noon, | 900 " | |
| Coal const | amed during the preceding 24 hours, | 900 " tons 400 lbs. 105 "44" | |
| Coal rema | ining on hand at Noon, | 105 "44 " | |
| | | | |

| T | | | | | | - | | | | | |
|---|-------|---|---|------------|----|-------|---|-------|-----|------|----------------------------|
| F | P. M. | - | - | | 0 | 1 m | , | 1/ | 1 | | |
| | 1 | | | | 8. | S. M. | , | O. S. | 11 | 1 | 29.76 73 12 69 69 O.C.3. |
| | 2 | | | | | | | Dou | th. | 1 | 29.74 73 71 69 69 |
| | | , | | | 1 | by E | 8 | | | 1000 | |
| - | 3 | - | - | | N. | 09 | , | " | | 1 | 29,73 7271 68 68 " |
| 1 | 4 | | | | | " | 1 | , | | 1 | 2972727068680.c.zv |
| 1 | 5 | | | | No | outh | | , | | 1 | 29.70 71 69 66 66 b.c.s.v. |
| 1 | 6 | | | | V. | 8.7 | 1 | | | 1 | 29 68 70 68 65 65 Bc.3. |
| | 7 | | | (little : | W. | by 1 | 7 | md. | W. | 1 | 29,66 69 68 60 65 |
| | 8 | | | 1 | | by & | | | | 1 | 29.6569686565 |
| | 9 | | | | | , " | | Jou | th | 1 | 29.6568676464 |
| | 10 | | | | V | .6. | | - " | | 1 | 29.6668676565 |
| | 11 | | | | | V. 8 | | A. S. | 6. | 2 | |
| 1 | Mid. | | | | | byi | | | | 1 | |
| 1 | | | | | | 1 | | | | 1 1 | |

under the command of Commander J. F. Jewell June 1st. , U. S. Navy, , 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Ommences Ed will H. S. M. Henerally Cloudy - Hazy. Overcast last hour, blonds Ois Com. Once, South On Commences from Moto S. W. Elbow in hawse Al Farmostone. From 4 to 8 A.M. Overcost and cloudy. Light variable airs. Oleand house Made preparations for coaling blips. Lien U. J. M. From 8 A. M. to Meridian: Lieux U. J. M. Overcast and hazy, Light airs Ed breeze from S. M. Es D. S. W. at 9 20 mustered crew at qualters. Board of inspection inspected Ed rejected To tons of Takasima boal. Board of survey of which, Chief Eugmen agres U. H. Was serior member, mex to surrey articles in Eugnis Seps. Made Lew signal Sux 4561 Flagship anew led with cornels Commedy Offices paid au official visit to the Flagship. Cross in hause port chain on top. at 17 o'clock, started fires in boilers 1 203 for distilling. Rich in Equipt 16 word more consplicting one good From Meridianto 4P,M, Overcast with cum! Ed Nimb. clouds. Hazy-Raining last hour. Owign U. J.M. Light breeze from A. S. W. to Douth. Received on board in Equip ment DESS 9 coils mailila rope & o coils hemp, respectively as follows: Manilla1-2", 1-2/4", 2-2/2", 2-23/4", 2-3", 1-3/2": Hemp- 1-1/4, 2-3", 2-3/4". Old coal lighters from Jardine & Matheson, were, by order of Commander in Chief sent dway, untouched, not having bern passed by bolard of inspection, as 1.30 new cook ordered from Laugfell as Mayore by Consider in Chief, came alongside at 2.30 at 240 began to cool ship. at 2.40 dighted U. O. O. Marion entiring the harbor Exchanged numbers with her at 3.00 Phe came to at 3.00 Transferred D. Tollefsen Lea) to U.D. Maral Hospital, Tokohama. Cross in hawse at end of watch Cooling olip. Dombbed dugley outside Stefameditine Eusign U. D. H From 4 to 8 P.M. Overcait and raining first hour; clearing remainder of watch Light bruge from South Ed M. D. M. Hinshed coaling at 6.30. Received in all To tons Jakasiwa lump coal, Began distilling at 5.00. Prose in Chain at end of watch; port chain on Top. From 80 M to Midnight Eurouw, clouds Bright Coll and hazy.

Light bruze to airs from South to D. D. E. Gross in hower, Distilling. Busign U. D. M. Examined and found to be correct. En Galloway 40 Nacionator.

| andard so | Heel. | Height in inches. | 66 6 | 66 64 | / | State of the Weather, by symbols. | Cutt. | Prop. of Clear Sky, in 10ths. |
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| r , | | 29,67 | 66 6 | | | 6.0.3. | Ouve | - |
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| (| E. 1 | 8. / | 8 1 29.77 E 1 29.71 | 8 1 29.77 67 68 6 8 1 29.71 71 68 6 | 8 1 29.77 6766 60 29.71 6868 66 29.71 71 6967 | 8 1 29.77 6766 66 29.71 6868 66 29.71 71 6967 29.71 7270 68 | 8 1 29.77 67 66 66 " 8 1 29.71 71 69 67 " 99.71 72 70 68 " | 8 1 29.77 67 66 66 " " 8 1 29.71 71 69 67 " " 8 1 29.71 72 70 68 " " |

| Course and distance | made good since preceding noon by observation | 18, | knots. | tenths. |
|---------------------|---|------------------|--------|-----------|
| | (Latitude by D. R. | | 0 | , " |
| Position at Noon: | Longitude by D. R. | | • | , " |
| Position at Noon: | Latitude by observations of ⊙ | | 0 | , " |
| | Longitude by chronometer from Forenoon O | bservations of ⊙ | • | , " |
| | (Latitude by | | • | , ,, |
| Position at 8 a. m. | Longitude by | | 0 | , " |
| | (Latitude by | | | , "" |
| Position at 8 P. M. | Longitude by | | 0 | , " |
| Current during the | time, knots tenths per hour, s | etting to the | | |
| Variation of the Co | ompass by Amplitude o observed at Sunrise, sh | ip's head | 0 | , ,, |
| Variation of the Co | ompass by Amplitude ⊙ observed at Sunset, | " | 0 | , , ,, |
| Variation of the Co | mpass by Azimuth ⊙ observed at | " | • | , ,, |
| Variation of the Co | mpass by Azimuth ⊙ observed at | " | • | , " |
| Water expended du | ring the preceding 24 hours, | | 130 | ogallons. |
| Water Siste | illed during the preceding 24 hours, | | 130 | |
| Water remaining or | hand fit for use at Noon, | | 180 | 0 " |
| Coal consumed duri | ng the preceding 24 hours, | | g tons | 6/0 lbs. |
| Coal remaining on l | hand at Noon, | | 151 " | 1674 " |
| | | | | / |

| P. M. | 4 | | | | | | 1 |
|-------|-------------|----------|-----|----------------|----------|--|-----|
| 1 | D. by E. | D. by 6. | 3 | 29.68 73 73 69 | b.c.3. | Potrat. | of. |
| 2 | D. D. E. | 0.8.6. | 3 | 29.66 73 73 69 | ,, | , 6 | " |
| 3 | D. M. by D. | D. by W. | 3 | 29.65747369 | , | , 0 | - 1 |
| 4 | D. by M. | , | 3 | 29.657473 69 | . , | , 1 | - " |
| 5 | South | " | 3 | 29,6476 7470 | " | , 6 | M, |
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| 7 | D. W. | , | 3-5 | 29.6172 7067 | 6.0.3.9. | . 1 | " |
| 8 | " | " | 3-5 | 29.61 20 70 67 | 6.0.3.9. | . 8 | " |
| 9 | D. by 6. | 1 | 3-5 | 29.63 70 7067 | " | | 1 |
| 10 | 0. 6.8. | " | 3-5 | 29.6470 70 67 | , | The state of the s | 1 |
| 11 | D. Wby M. | " | 3-5 | 29.64727168 | 3 | " | " |
| Mid. | D. W. | D. M. | 3-8 | 29.64727269 | , | " 0 | " |
| | | | 1 | | | | |

, U. S. Navy, , 1888.

Commences Ed until H. A.M. Hazy Ed pleasant; light airs from N. W. blear haivse. Distilling. Eusign U. D. M. From H to 8 N. M. M. W. to Mess. Received for issue in Pay. Defit. 86 lbs bread. At. 7.30 Flugship aignaled special code 645. Distilling. Cross in hawse, port chain on tops From 8 A. M. to Meridian - Busign U. D. M. Partly clear with Cir. Cum, Clouds, Bright & hazy. Light airs from 8.08. to S. by 6. at 9.05, Flagolip made general eignal 1017. airis bedding, By order of Commission the bedding by order of Commede Officer, the following purishments were inflicted - a. Ditwar (0.a. 20) 3 days

solitary confriences on bread and water for veing filthy language from aloft to Chief B.M. In I Moreau (Bayaman) to days double irons for being druck on duty to smuggling liquor ats 110 clock Flagship made made general orginal 2240 - Piped down aind bedding. Dhifted hammocks. Cross in house, Distilling of Claudtone Eusign II. A. M. From Meridian to 4 PM,

Jair, gentle breeze from D. D. E. to D. by M. Commedy. Officer made an official visit to U. O. A. Marion". The following named men were transferred to this visual from the Monocacy: - A. Tortell (O.O.) B. Knight (Sds), O.Olson (O.S.) and from the B. C. M. C. M. C. S. C. the Brooklyw, H. Miller Dea) The following men were mlisted for the cruise of this vessel: N. Lundquist (Sea) H. Jakstes (0.0.) W. Johansen (0.0.) O. Christopheesen (0.0.) H. Lyndon (Dea) E. Johnson (0,0). Cross in hawse. Distilling

Singh Krdinan From 4 to 8 PM. Eusign U. A. M.

last part. South breeze from D. by TV. nicrosing to light squally, latter part to stiff freeze. Phipped for the Oruse, as landsman, Frederick Dmith. Goss in Rawse. Distilling

Allamations. Ousign U.D. M.

From 8 PM. to Midwight

Distilling. Olear hawse

Eusegn U. An.

Examined and found to be correct.

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under the command of Commander J. F. Jewell
Dunday June 3 , U. S. Navy, , 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Commences Ed until Ha.M. Starboard chain on top. Mauled fires and stopped distrilling at 10 clock From 4 to 8 a.M. Eurign U.D.M. Blouds Cuw. Shat. Is Mind. Light to grutle bresze from N. by N. till lack hour, when light bresze came out from Morth. Liberty party returned. Clear hawse at lud of watch Allowed tone From 8 am. to Meridian -Overcast and threatuing weather; wild in moderate equalls from N. E. Commande Officer inefected ship with crew at quarters, afterwards had grueral muster John Johnson was brought on board by the Consular police, twenty eight (28) hours Jaten expiration of his leave, and a reward of ten (10) yew. was paid for his apprehension & delivery on board. Commide Officer of the Marion baid an official visit to this rusel. Maral Cadel C, S. Craig U. S. Navy reported for duty on this vessel. At 9.30 made sick reports "I" by signal. answered. Clear howse From Meridian to 4 P.M. Busign 11 B. N. Overcast Ed cloudy. Mod. breeze from N.N. E. first hour de-creasing to gentle breeze, remainder of watch, from E. N. E. Dynally. blear hawse. From 4 P.M. to 8 P.M. Eusign Wo.M.

Overcast druggling first three hours steady rain last hour;

grutle breeze from E. R. E. H.B. M.S. "Rattle" got under way at 7.00
stood out of the harbor, but anchored again at 7.00. Clear hawse. Hyllodinan Courign U. A. M. From 8 P.m. to Medinght: Barometer dropping rapidly, reading 29.15 at end of watch. Gentle breeze from N. N. E. Moderate Sea Ed sweet. Clear hause Eusign U.DM.

Examined and found to be correct.

Los Laceoway . and Navigator.

LOG of the United States Steamer Essex

Moored in the harbor of Yokohama Japan Reading of Patent Log. COURSES STEERED by Standard Compass. Direction by Standard Compass. A. M. North North O.O. niut o m 3-4 29.10 60 60 08 n byn n Tr byn. n by m 29.09 60 60 88 3-4 3-4 29.08 60 60 08 29.08 61 60 09 2 o.C. o. Cum o O 29.10 61 60 59 n.O. m. 29.15 61 61 59 Q. m. 29.18 62 61 60 29.21 63 62 61 21 0.0.0. D. S. W 29.26 63 63 61 2 0.0.d.f 0. by M 29.2764 (362 6.0d4 t.c.f. 29.29 65 64 68 m A. M. 29.3267 65 65 Noon.

| Course and distance | made good since preceding noon by observations | | knots. | | tenths. | |
|---------------------|--|-----------------|--------|-----|----------|---|
| | Latitude by D. R. | | ٠ | , | " | |
| | Longitude by D. R. | | • | , | " | |
| Position at Noon: | Latitude by observations of ⊙ | | | , | " | |
| | Longitude by chronometer from Forenoon Ob | servations of ⊙ | | , | " | |
| | (Latitude by | | | , | " | |
| Position at 8 a. m. | (Longitude by | | ۰ | , | " | |
| | (Latitude by | | • | , | " | |
| Position at 8 P. M. | Longitude by | | | , | " | |
| Current during the | time, knots tenths per hour, set | ting to the | | | | |
| Variation of the Co | mpass by Amplitude 🔾 observed at Sunrise, ship | o's head | | , | " | |
| Variation of the Co | mpass by Amplitude © observed at Sunset, | " | | , | " | |
| Variation of the Co | mpass by Azimuth ⊙ observed at | " | • | , | " | |
| Variation of the Co | mpass by Azimuth ⊙ observed at | u u | 0 | , | " | |
| Water expended du | ring the preceding 24 hours, | | 3 | 50 | gallons. | |
| Water | during the preceding 24 hours, | | | | " | |
| Water remaining or | hand fit for use at Noon, | | 20 | 600 | ð " | 1 |
| Coal consumed duri | ng the preceding 24 hours, | | | | 00 lbs. | |
| Coal remaining on l | hand at Noon, | | 150 | " 5 | 94 " | |
| | | | | 1 | - | |

| P. M. | | | | | | | | | | | |
|-------|-------|-----|-------|------------------|---------|------|-------------------|----------|----------|---|----|
| 1 | | | | North | n. W | 1-4 | 29.35-69 65 60 | 6.0.39 | Cir Cum | 3 | 0. |
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| | 1 | | | | | A.d. | | | | | |

, U. S. Navy,

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences Ed until 4 a.m. at end of watch, light bridge blear house from n to n.m.; grutle to moderate Ct. A. Rechtitu From 4 to 8 a.m. Luit U. J. M. D.W. A.M. A. Rattles got under way at 6:20, but auchond again at 6:30. A French questoal which came in during the night, shifted her berth & closer in shore. at 7-25 Flagship made time and uniform signal "grog pennant 645" auswered , Duglikoduran From 8 all to Meridian: Que first Ed second hours Es passing showers last hour, Toggy. Light breeze first hour from D.E. shifting to light airs from I. D. W. remainder of watch Ot 9.30, mustered and inspected at quarters "ed exercised Dis. as follows: 1st " 3- sub, etations & 2nd Div. infan try. Tested Magazine Ed shell room flood cocks, Edfound them in good condition. Cross in howse; port Chain on top. The Commidy Officer visited the flaphip officially From Meridian to 4 . M. Generally cloudy. First hour would in equalle from M. W. changing from light to moderate. Then light breeze from M. W. Wo last half of watch from South Cleared haved. as at x.30 started fires in boilers 2, 4.5 6, 7, 48. Making preparations for sea, But main trypail Red for lop-mast staypail. Cit end of watch Cross in have, Intro chain on top cs. A. Ceolititu L'eut. U. O. N. Trom 4 to 8 P.M. blear Es pleasant. Light airs from N.E. at 5.15 sent down t.g. yards, beut t. g. vails Ed crossed gards again. made preparations for seal. at 6.40 hove up started whichor and hove in to a short stay on port chain, at 7.10 mustered at quarters. found that ah Fat (elenge stur) Ed ah Chung Ldo) were absents. Fires in boilers 2. 4, 5, 6, 7. 88 From 8 . M. to Midnights: blear Ed pleasant. Light airs from N. & & E. N. E. at. 9.00 made int. signal 4896 - Brootlyn auswered 9.04. Called all hands got under way and Reamed out of the harbor. at 9.35 rounded the light ship headed D. 1/2 E. and furt over patent log. Stood out of The Boy. at 11.70 change course to South. At end of watch under fore Ed aft sail, topsails. "In Ships draught 14' forward 16' aft. A freeling

Examined and found to be correct.

te Balloway Lieut & Navigator.

Lient. U. A. M.

LOG of the United States Dleamer Essel", 3 Rate, at, sea. Making passage from Gokohawa to Magasaki Japan.

| | | | Reading | | WIND. | | | | BAROME | TER. | TEMI | | | State of | Forms of | Clear Oths. | of the Sea. |
|-------|--------|---------|----------------------|---|-----------------------------------|--------|-------|---------|-------------------|--------------|-------------------|-------------------|----------------------|-----------------------------|---------------------|---------------------------------|-------------|
| Hour. | Knots. | Tenths. | of Patent Log. | COURSES STEERED by Standard Compass. | Direction by Standard Compass. | Forces | Heel. | Leeway. | Height in inches. | Ther. att'd. | Air, Dry Balb. | Air, Wet Bulb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Clear Sky, in 10ths | State of th |
| A. M. | 34 | 59 | 22.0 | B. M. 1/2 M. | 11, 8. | 3 | | | 29.67 | 60 | 63 | 28 | (6x) | 6.c.z | Cir. | 2 | 0 |
| 2 | 8 | 6 | 26.9 | , | , | 2 | | | 29.67 | | | | | | " | 8 | |
| 3 | 8 | 3 | 35.5 | , | D. by 6. | 2 | | | 29.68 | 65 | 63 | 59 | 64 | " | & Strax | 7 | , |
| 4 | 7 | 4 | 43.8 | " | A.W. | 3 | | | 29.68 | 60 | 64 | 09 | 64 | " | " | 5 | |
| 5 | 6 | 6 | 01.6 | " | 7 | 4 | | | 29.72 | 65 | 64 | 59 | 64 | " | " | 4 | ms. |
| 6 | 5 | 3. | 08.0 | , | W. by d. | 4-5 | | | 29.73 | 65 | 64 | 58 | 64 | , | 1 | 5 | mR. |
| 7 | 4 | 4 | 63.3 | W. O. W. | " | 6-7 | | | 29.72 | 60 | 64 | 08 | 64 | " | , | 6 | 1, |
| 8 | 4 | , | 47.7 | W. by D. | | 05-6 | | | 29.72 | 65 | -60 | 08 | 64 | " | " | 6 | " |
| 9 | | 0 | 77.8 | m. 12 n.n. by &. | West | 0-7 | | - | 29.74 | 63 | 62 | 57 | 69 | 6.0 | " | 6 | |
| 10 | | | | M. by A. | " | 5-6 | | | 29.70 | -60 | -64 | 09 | | " | , | V | m.L. |
| 11 | | | | West | " | 5-7 | | | 29.70 | -66 | 66 | 60 | | " | , | 6 | , |
| Noon. | | | | , | " | 5-7 | | | 29.74 | 68 | 68 | 61 | | " | " | 7 | " |

| Course and distance made good since preceding noon by observations, Courses barrious | 77 knots. 8 tenths. |
|--|-------------------------------|
| (Latitude by D. R. | 9 1 11 |
| Longitude by D. R. | 0 1 11 |
| Position at Noon: { Latitude by observations of @ Sucioda | Harbor " |
| Longitude by chronometer from Forenoon Observations of ⊙ | 0 , 11 |
| (Latitude by | · , , |
| Position at 8 a. m. Longitude by | o , , |
| (Latitude by | 0 , " |
| Position at 8 P. M. Longitude by | , , , |
| Current during the time, knots tenths per hour, setting to the | |
| Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head | 0 1 11 |
| Variation of the Compass by Amplitude ⊙ observed at Sunset, " | 0 / // |
| Variation of the Compass by Azimuth ⊙ observed at " | . , ,, |
| Variation of the Compass by Azimuth ⊙ observed at " | . , ,, |
| Water expended during the preceding 24 hours, | 350 gallons. |
| Water during the preceding 24 hours, | |
| Water remaining on hand fit for use at Noon, | 2300 " |
| Coal consumed during the preceding 24 hours, | 19 tons 260 lbs. |
| Coal remaining on hand at Noon, | 13 tons 260 lbs. 137 " 3944 " |
| | |

| P. M. | | | | W. by O. | W by I. | ~ | 29,74 70 | 70 | 61 | 6.0.9.3. | Cir Cun | 1 | m.L. |
|-------|-------------------|---|-------|--------------|-----------|-----|----------|----|----|----------|---------|------|------|
| 2 | | | | n D. W. | , | ~ | 29.73 71 | | | " | , | 1 | " |
| 3 | | | | W by A. | " | 5. | 29.7272 | | | , | Cir. | 1 | , |
| 4 | | | | W b. W | 1 22 | 5 | 29.72 7: | | | , | | | |
| 5 | | | | A. m | D. M by m | 5 | 29.74 72 | | | | , | 7 | " |
| 6 | | | | " | , | ~ | 29.75 71 | | | , | | 5 | |
| 7 | | | | A. by m | West | 3 | 29.75 70 | | | 6.03. | " | 5 | 7 |
| 8 | 10 | 0 | 80.4 | D. by m/2 m. | n by A. | 4 | 29.76 68 | | | , | | 7 | " |
| 9 | 6 | 6 | 82.2 | n. 14 2 | West | 3-4 | 29.80 6 | | | b. c. m. | | 9 | " |
| 10 | 2 | 9 | 96.7 | " | " | 4-3 | 29.81 68 | | | , | | 9 | O.L. |
| | The second second | | 104.3 | | , | | 29.81 6; | | | | | 9 | " |
| Mid. | 7 | 4 | 10.8 | m by D. | , | 3 | 29.80 6 | | | | " | 1 15 | |
| | | 1 | 1 | | | 1 | | | | | | | |

LOG of the United States Steamer Essex , 3 Rate, ax sea making passage from Tokohama to Magasaki Japan.

| | | | | | WIND, | | | | BAROME | TER. | TEMP | ERAT | URE. | State of | Forms of | lear ths. | Sea. |
|-------|--------|---------|---------------------------------|---|-----------------------------------|--------|-------|---------|-------------------|--------------|-------------------|-------------------|----------------------|-----------------------------|---------------------|--------------------------|--------------|
| Hour. | Knots. | Tenths. | Reading of Patent Log. | COURSES STEERED by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. att'd. | Air, Dry Bulb. | Air, Wet Balb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of C Sky, in 10 | State of the |
| A. M. | , | 0 | 18.6 | n by A. | m. but. | 3 | | | 29.80 | 68 | 67 | 64 | 65 | - 6.c | Cum. | 8 | 21 |
| 2 | | | 26.1 | | m. by M. | 3 | | | | | | | | " | | | |
| | | | 33.9 | | m.n.m. | 3 | | | 29.82 | -68 | 67 | 64 | 66 | , | | | - |
| 4 | 7 | 6 | 41.5 | | ,, | 3 | | 10000 | 29.84 | | | | | | Ein. | 8 | " |
| 5 | | | 48.3 | , | W. M. by M. | 3 | | | | | | | | 6.cz. | , | 7 | |
| 6 | 800 | 280 | 56.5 | J.n. by n. by M. | nnin. | 3 | | | 29.88 | 1000 | | | | | " | 1 | * |
| 8 | | - | 72.7 | 777.0.71. | " | 3 | | | 29.92 | 1 | | | | | " | | 4 |
| 9 | | | 81.7 | , | 7U. by 8. | 4 | | | 29.90 | | | | | | " | 8 | , |
| | | | 90.6 | 4 | n. E. | 3 | | | 29,90 | | | | | | " | 100000 | 7 |
| 11 | 8 | 6 | 99.1 | , | 8,71.6. | 2 | 200 | | 29.94 | - | 1 | | | | " | | , |
| Noon. | 8- | 3 | 107.4 | | S.S.M. | / | | | 29.94 | 1/2 | 71 | 67 | // | " | , | 8 | " |

| Course and distance | made good since preceding noon by observation | 15, Courseo-Various. | 126 km | ots. | 9 | tenths. | | |
|---------------------|---|----------------------|--------|------|-------|-------------|---|--|
| | (Latitude by D. R. as & a.M. | | 34 | 017 | , 30 | " M. | | |
| | Latitude by D. R. as & a.M. Longitude by D. R. Observation 8 | a.M. | 137 | . 0% | 7, | <i>"</i> &. | | |
| Position at Noon: | Latitude by observations of ⊙ | | | | | " M. | | |
| | Longitude by chronometer from Forenoon C | Observations of ⊙ | 136 | .37 | ν, | 8. | | |
| | (Latitude by | | | 0 | , | " | | |
| Position at 8 a. m. | Longitude by | | | • | , | " | | |
| n an W | (Latitude by | | | 0 | , | " | ` | |
| Position at 8 P. M. | Longitude by | | | 0 | , | " | | |
| Current during the | time, knots tenths per hour, s | etting to the | | | | | | |
| Variation of the Co | ompass by Amplitude o observed at Sunrise, sh | nip's head | | 0 | , | " | | |
| Variation of the Co | ompass by Amplitude o observed at Sunset, | " | | 0 | , | " | | |
| Variation of the Co | ompass by Azimuth ⊙ observed at | " | | 0 | , | " | | |
| Variation of the Co | ompass by Azimuth ⊙ observed at | u | | | , | | | |
| Water expended du | nring the preceding 24 hours, | | | 6 | 300 | gallons. | 1 | |
| Water | during the preceding 24 hours, | | | | | " | | |
| Water remaining o | n hand fit for use at Noon, | | 1/ | 19 | 25 | 0 " 0 lbs. | | |
| Coal consumed dur | ing the preceding 24 hours, | | 16 | ton | is 20 | 0 lbs. | | |
| Coal remaining on | hand at Noon, | | 121 | ** | 18 | 4 " | | |
| | | | | | | | | |

| P. M. | | | 1 | | | | | | | | | | | | |
|-------|-----|-------|--|-------------|-----|-----|----|----|----|----|----|--------|---------|----|-------|
| 1 | 82 | 15.6 | m.A.M. | A. A. W. | 2 | 29. | 93 | 72 | 70 | 66 | 71 | b.c.z. | Cuntral | 8 | U.L. |
| 2 | 87 | 24.3 | " | " | 2 | 29 | 92 | 11 | 20 | 66 | 20 | " | " | 8 | 4 |
| 3 | 44 | 32,8 | A. W. by M. | South | 3 | | | 71 | | | | | " | | |
| 4 | 85 | 41,3 | A. W. by M. | J. A. E. | 2 | | | 71 | | | | | ,, | 8 | 4 |
| | | | | | 2 | | | 73 | | | | | Cir-Cur | 1 | D. C. |
| 6 | 2 % | 55.05 | J. M. by ni/2 7. 2. m. | West. | 2-1 | | | | | | | " | " | | |
| 7 | 62 | 63.9 | J. M. by n/2 M. A. M. Sleawing around Door nus ake M. N. by n/2 M. | n.W.bym | 3 | | | 74 | | | | | , | | |
| | | | | | 3 | | | | | | | 6.0 | " | | |
| 9 | 75 | 80.7 | | W. M. by M. | 3 | | | | | | | 6. 3. | None. | 10 | 0, |
| 10 | 3 4 | 88.8 | n. n:/2 n. | North | 3 | | | | | | | " | " | | |
| 11 | 84 | 97.2 | " | | | | | | | | | , | , | | |
| Mid. | 8.4 | 5.6 | ,, | , | 3 | | | | | | | | 1 | 10 | " |
| 1 | | 1 | | | 1 1 | | | | | | | | REEL | | |

Generally clear hazy Espleasant. Light to gentle breezes from S.S.W to S.S. &. at 12.10 sex fore Es aft sail. at v.15 Changed course to S. W. by M. at 2.30 sex foresail. Land in eight on started beam during watch, at end of From H to 6 P. M. MM togatt Queign U.A.M.

Generally clear; bright Es pleasant; hazy, Clouds Cir-cum Es Strat. Light brouge from couth first, hour, shifting to west in light airs an brouge. Amosth sea, long D. Why, swell, Ohip steady Reconfined J. H. Costoin (2 C. F) according to orders. at 4.40 took in foresail Ed at 5.05 f. Es a sail at 5.70 sighted 00-sime light house Changed course to D. W. by M. 17 M. P. S. 57.4. at 540 00-sime light house bore abeam, Changed course to M.O.M. P.L. J. J. O. Exchanged color valutes with Oo-simal la house. Under steam alone Lost sight of Oo-sima light house at end of watch

A. Claudstone. From 6 to 8 P. M.,

blear Est pleasant; gentle breeze from n. n. by m. Running by bearings until 6.46 when course was changed to n. n. by m. h. n. Livo-misaki light bearing (p.c.) n. n. E. Six fore & afx sail at 6-20 & took it in at 6-46 new course was changed to n. n. by m. h. n. Livo-misaki light bearing (p.c.) n. n. E. Six fore & afx sail at 6-20 & took it in at 6-46 new course was changed to n. n. of m. A. n. Ousign N. J.M.

From 8 P. M. to Midnight blear Ed ple as and, Light fog around honzon Ed overland. Sentle breize from M. W by M Ed N.M.E. Steaming up Kin Channel on M. W. by Wh W. courses until 9.35 when changed to n. W/2 N. Land on starboard hand, at end of watch If uno Misaki bore about North, at 10, 15 sex fore and aft sail. Steam in six boilers P. L. J. 6

Eusign U D.M

Examined and found to be correct.

Les alloway and Navigator.

LOG of the United States Dleamer Essel", 3d. Rate,
At sea making the passage from Yorkshawa to Nagasaki Japan

| | | | Reading | | WIND. | | | | BAROME | TER. | TEME | PERAT | URE. | State of | Forms of | lear ths. | e Sea. |
|-------|--------|---------|----------------|---|-----------------------------------|--------|-------|---------|-------------------|--------------|-------------------|-------------------|----------------------|-----------------------------|---------------------|--------------------------------|-----------------|
| Hour. | Knots. | Tenths. | of Patent Log. | COURSES STEERED by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. att'd. | Air, Dry Bulb. | Air, Wet Bulb. | Water at Surface, | the Weather, by symbols. | Clouds, by symbols. | Prop. of Clea Sky, in 10ths | State of the Se |
| A. M. | 7 | 5 | 13,1 | n. n./2 76. | Cask | 2 | | | 29.68 | 68 | 67 | 66 | 65 | B.C. n. | Cristias. | 9 | 1 |
| 2 | 0 | 2 | 13.8 | n. in E. | 8, 21, 8, | 2 | | | 29,64 | 69 | 68 | 67 | 65 | " | 1 | 9 | " |
| 3 | 7 | 8 | 23.4 | 21. 1/4 & | " | 2 | | | 29,68 | 68 | 68 | 67 | 66 | " | " | 9 | , |
| 4 | 643 | 76, | 30.7 | north | " | 2 | | | 29,67 | | | | | | 0.0 | 8 | |
| 5 | 7 | 9 | 38.1 | | Morth | 1 | | | 29.95 | 68 | 66 | 64 | 66 | B. c. z. | X Stray. | 7 | , |
| 6 | 7 | 6 | 03.6 | n. by E. | " | 2 | | | 29.96 | | | | | | " | 6 | 1 |
| 7 | 5 | 90, | 60.5 | 73/48. n.byn. | " | 2 | | | 29.91 | 69 | 68 | 65 | 67 | " | " | 6 | 1 |
| 8 | 6 | 7 | 69.9 | n. o. n./2 m. | m. A. m. | 1 | | | 29.91 | 70 | 68 | 66 | 69 | , | " | 6 | |
| 9 | 7 | 6 | 77.5 | " | 4 | 1 | | | 29.97 | 71 | 69 | 66 | 70 | " | , | 5 | |
| 10 | 8 | 0 | 85,5 | " | A.W. | 2 | | | 29.97 | 71 | 76 | 67 | 69 | , | 4 | 5 | 1 : |
| 11 | 51, | 4 | 90.6 | W. by F. w/2 A. | Douth | 2 | | | 29.95 | -71 | 69 | 66 | 69 | , | + | 5 | 1 |
| Noon | 24 | 6 | 92.9 | m. "/40 | n. E. | 2 | | | 29 94 | 172 | 71 | 68 | 69 | " | , | 4 | 4 |

| | and the same of th | | | | | | |
|---|--|---|-------------------|------------|-----------|---------|------------|
| | Course and distance | made good since preceding noon by observation | ons, barrous | (Coasting) | 203 knots | 6 | tenths. |
| | | (Latitude by D. R. obs. 8 a.M. | | | 3403 | 30, | " |
| | | Latitude by D. R. obs. 8 a.M. Longitude by D. R. bearing 8 a. | nV | | 1340 | 50, | " |
| | Position at Noon: | Latitude by observations of ⊙ | | | • | , | " |
| | | Longitude by chronometer from Forenoon | Observations of ⊙ | | • | , | " |
| | Position at 8 a. m. Position at 8 p. M. Current during the t Variation of the Cor Variation of the Cor Variation of the Cor Water expended dur Water Water remaining on | (Latitude by | | | | , | " |
| 4 | | Longitude by | | | • | - , | " |
| | | (Latitude by | | | 0 | , | " |
| | Position at 8 P. M. | Longitude by | | | 0 | , | " |
| | Current during the | time, knots tenths per hour, | setting to the | | | | |
| | Variation of the Co | mpass by Amplitude o observed at Sunrise, s | hip's head | | 0 | , | " |
| | Variation of the Co | mpass by Amplitude o observed at Sunset, | " | | 0 | , | " |
| | Variation of the Co | mpass by Azimuth O observed at | " | | 0 | , | " |
| | Variation of the Co | mpass by Azimuth O observed at | " | | 0 | , | " |
| | Water expended dur | ring the preceding 24 hours, | | | | 35 | O gallons. |
| | Water | during the preceding 24 hours, | | | | | " |
| | Water remaining on | hand fit for use at Noon, | | | / | 60 | 00 " |
| | Coal consumed duri | ng the preceding 24 hours, | | | 17 | tons 19 | 720 lbs. |
| | Coal remaining on h | and at Noon, | | | 163 | " 4 | 154 " |
| | | | | | | | |

| P. M. | | , | 12 | and V | | | 29.91 |
|-------|------|------|------|--|----------|---|-------------------------------------|
| 1 | 0200 | 6096 | 3.2 | med n.n.n.m nbyn. m.n.m nlm. by n. 3/4 m | & by n | 1 | 29,90 73 72 68 69 b.cz. Circun 4 d. |
| 2 | 6 | 2 | 8.9 | MIN. by W. Jy W | , | 1 | 29.90 75 74 70 69 " " " |
| 3 | | | 22.6 | | n.m. | 1 | 29.88 75 79 71 69 " " 3 1 |
| 4 | 7 | 7 | 30.3 | " | n. E. | 1 | 29,86 75 7471 68 O.C.Z. Cum. 0 |
| 5 | 6 | 9 | 37.2 | 111 | West | 1 | 29.85 74 73 69 70 " " " " " |
| 6 | 7 | 4 | 446 | m 0. 7.1/4 m | N. S. M. | 1 | 29,8474736972 , , 0 , |
| 7 | 1 | 3 | 51.9 | m.1/200 | West | 2 | 29, 83 73 72 68 72 , , , . |
| 8 | 7 | 2 | 09.1 | mn m/4n. | , | 2 | 29,84727,6868 |
| 838 | 2 | 4 | 61.5 | Standing on for | 1. 6. | 1 | 29.82-73 72-68 ", , 0 |
| 10 | | (3) | | North. | balm | 0 | 2982727167 ", 0" |
| 11 | | | | n by E. | MM. M. | 1 | 29.8272 70 66 ", ", 0 |
| Mid. | | | | North | , | 1 | 29.82727067 0 " |
| 1000 | | 1 | 1 | | | 1 | |

Examined and found to be correct.

too Galloway and Navigator.

William Il S.M.

LOG of the United States Steamer Essex", 3d Rate, Asea; malling the passage from Yokolawa to Magasaki Japan.

| | | | | 0 | 0 0 | | | | - now | were a | mp.c | DED A | PUDE | - / | | H . | á |
|-------|--------|---------|------------------------|---|---------------------------------------|--------|-------|---------|-------------------|--------|------|----------------|---------------------|---|------------------------------------|---------------------------------|-----------------|
| Hour. | Knots. | Tenths. | Reading of Patent Log. | COURSES STEERED by Standard Compass. | WIND. Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | | - | Air, Wet Balb. | Waterat Surface, | State of the Weather, by symbols. | Forms of Clouds, by symbols. | Prop. of Clea Sky, in 10ths. | State of the Se |
| A. M. | | | | 71.8 | n.E. | y | | | 29.82 | 72 | 71 | 68 | | 0.01. | Cuw nuat. | 0 | 8. |
| 2 | | | | E. by 8. | E.N.E. | 2 | | | 29:79 | | | | | " | ', | 0 | , |
| 3 4 | | | | East | " | 7 3 | | | 29.71 | -70 | 69 | 67 | | " | | 0 | ", |
| 5 | 2 | 0 | 11.6 | " | " | 3 | | | 29.68 | 70 | 69 | 66 | 64 | | " | 0 | 1. |
| 7 8 | 8 | 4 12 | 80.0 | Ø. W. | " | 4 | | | 29.66 | | | | | | 7 | 6 | " |
| 9 | 8 | 1 | 96.4 | " | East 8 | 3 3 | | | 29.60 | 69 | 68 | 65 | 63 | b. c.z. | " | 0 | 4 |
| 10 | | 0 | 17.8 | D. m/2 D. | N. E. by 8. | 4 | | | 29.07 | 70 | 68 | 65 | 43 | frezó | Cluw Strax | 3 | " |
| Noon. | 8 | 8 | 21.6 | Saudin starough Inland Real | M. M. E. | 4 | | | 19.00 | 64 | 6/ | 64 | 64 | 1 60 p. | Es Nuch. | / | ^ |

| Course and distance | made good since preceding noon by observations | , barious (Island sea) | 110 | knots. | 5 | tenths. |
|----------------------|--|------------------------|-----|--------|---------|-------------------|
| | Latitude by D. H. Branigs | | | | | " |
| | Longitude by DR. | | E | 1320 | 26' | " |
| Position at Noon: | Latitude by observations of ⊙ | | | 0 | , | " |
| | Longitude by chronometer from Forenoon Ob | servations of ⊙ | | • | , | " |
| | (Latitude by | | | 0 | , | " |
| Position at 8 a. m. | Longitude by | | | 0 | , | " |
| | (Latitude by | | | • | , | " |
| Position at 8 P. M. | Longitude by | | | 0 | , | " |
| Current during the t | ime, knots tenths per hour, set | ting to the | | | | |
| Variation of the Cor | mpass by Amplitude ⊙ observed at Sunrise, ship | o's head | | 0 | 1 | " |
| Variation of the Cor | npass by Amplitude ⊙ observed at Sunset; | " | | ,0 | , | " |
| Variation of the Cor | npass by Azimuth ⊙ observed at | " | | 0 | , | " |
| Variation of the Cor | npass by Azimuth ⊙ observed at | " | | • | , | " |
| Water expended dur | ing the preceding 24 hours, | | | | 350 | gallons. |
| Water Dest | led during the preceding 24 hours, | | | | 850 |) " |
| | hand fit for use at Noon, | | | | 210 | 0 " |
| Coal consumed during | ng the preceding 24 hours, | | | 11 | tons /7 | 70 lbs. |
| Coal remaining on h | and at Noon, | | | 91 | " 93 | 90 lbs. 2 cf " |
| | | | , | / | / | |

| The same | | | | | | | | | | | | |
|----------|---|--|--|--|--|---|--|---|--|--|---|---|
| and the | | n by A. | n by m. | 4 | 29.67 67 | 65 | 63 | 65 | 0.C.N. | Gune. | 0 | m. |
| | | | , | 3 | | | | | | , | 0 | "1 |
| 18 | 46.2 | mnm/2m. | nn | 2 | 29.66 66 | 65 | 63 | 64 | | | 6 | Ø, |
| | | | nnm | 3 | | | | | | " | 0 | - |
| | | | mm.m | 2 | | | | | | " | 0 | 1 |
| 80 | 71.6 | " | West | 1 | | | | | | , | 0 | 1 |
| 82 | 80.8 | " | " | 1 | 29.66 66 | 65 | 64 | 65 | , | , | 0 | 4 |
| 433 | 85.1 | 7. n.h n | n.m. | , | | | | | | | 0 | 1 |
| 29 | 91.7 | Drauffin for ayedings. | A.M. | , | | | | | | " | 0 | 4 |
| | | | " | 1 | | | | | | | 0 | 4 |
| | | | mn.n | , | | | | | | " | 0 | " |
| | | m.n.m. | " | , | | . / | | | | | 0 | - |
| | 8 4 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | 8 4 38.4 7 8 46.2 8 8 55.0 8 6 63.6 8 0 71.6 8 2 80.8 | 8 4 38.4 " " " " " " " " " " " " " " " " " " " | 8 4 30.0 M by A. M by M. 8 4 38.4 7 8 46.2 MM M/2 M. M M 8 8 55.0 8 6 63.6 " M.M.M. 8 0 71.6 8 2 80.8 45 37 88.8 45 37 88.8 9 1.7 Hands in for appelings. A by M M by M M M.M. M by M M M.M. M M.M. M M.M. M by M M M.M. M | 8 4 30.0 M by d. M by M. 4 8 4 38.4 7 8 46.2 MM M/2 M. M M 2 8 8 55.0 8 6 63.6 " 8 7 M.M. 3 8 8 8 8 " 8 8 8 8 " 8 8 8 8 " 8 8 9 80.8 " 8 8 8 8 " 8 8 8 8 " 8 8 8 8 " 8 8 8 8 | 8 4 30.0 M by d. M by M. 4 29.67 67 8 4 38.4 " 3 29.66 66 88 8 50.0 " M.M. M. M. 3 29.66 66 86 80 71.6 " MESS 1 29.66 66 86 87 80.8 " " 129.66 66 66 87 80.8 " " 129.66 66 66 66 66 66 66 66 87 80.8 " " 129.66 66 66 66 66 66 66 66 66 66 66 66 66 | 8 4 30.0 M by 8. M by M. 4 29.67 67 68 8 4 38.4 " 3 29.66 66 66 64 9 8 46.2 MM M/2 M. M W 2 29.66 66 66 65 8 8 55.0 " M M M 3 29.66 66 66 8 0 71.6 " MESS 1 29.66 66 65 8 2 80.8 " 1 29.66 66 65 8 2 80.8 " 1 29.66 66 65 43 33 88.8 M. M. M. M. M. 1 29.66 66 65 43 39 88.8 M. M. M. M. 1 29.68 68 68 2 9 91.7 Otauls in forage days. D. M. 1 29.68 68 68 W by M M M M. M. 1 29.68 68 68 W by M M M M. M. 1 29.68 68 68 | 8 4 30.0 M by D. M by M. 4 29.67 67 68 68 68 66 W by M. 4 29.66 66 64 63 65 64 65 65 65 65 65 65 65 65 65 65 65 65 65 | 8 4 30.0 M by 8. M by M. 4 29.67 67 65 63 65 8 4 38.4 " 3 29.66 66 64 63 65 8 8 50.0 " M.M.M. 3 29.66 66 64 63 64 8 6 63.6 " M.M.M. 2 29.66 66 65 64 65 8 8 8 8 8 8 " 129.66 66 65 64 65 8 8 8 8 8 8 " 129.66 66 65 64 65 8 8 8 88.8 " 129.66 66 65 64 65 8 8 8 88.8 " 129.66 66 65 64 65 8 8 88.8 " 129.66 66 65 64 65 8 8 8 88.8 " 129.66 66 65 64 65 8 8 88.8 " 129.66 66 65 64 65 8 8 88.8 " 129.68 68 68 68 65 8 8 8 8 8 8 " 129.68 68 68 68 66 8 8 8 8 8 67 66 | # # 30.0 M by A. M by M. 4 29.67 67 65 68 65 0.C.M. 8 4 38.4 " 3 29.66 66 64 63 65 . 9 8 46.2 MMM/2 M. M W 2 29.66 66 64 63 64 . 8 8 55.0 " M.M.M. 3 29.66 66 64 63 64 0.C.d. 8 6 63.6 " M.M.M. 2 29.66 66 65 64 65 " 8 0 71.6 " MESS 1 29.66 66 65 64 65 " 8 8 80.8 " 1 29.66 66 65 64 65 " 43 3, 88.8 M. M. M. M. 1 29.68 68 68 65 65 . 43 3, 88.8 M. M. M. M. 1 29.68 68 68 66 . 8 8 4 30.0 " 29.68 68 68 66 " 1 29.68 68 68 68 66 " 1 29.68 68 68 68 68 68 68 68 68 68 68 68 68 6 | # # 30.0 M by A. M by M. # 29.67 67 68 68 68 66 8 # 38.4 " | # # 30.0 M by D. M by M. # 29.67 67 68 68 68 68 68 68 68 68 66 6. C. C. M. C. C. M. C. M. |

, U. S. Navy, , 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences Ed until 4 a.m. breeze from N.E. E. M.E. A engle aucher: fires banked. Scitilling. Harted fires in boilers 2 204 at 3.40. Turned engines over at 3,50 From H to 8 a M.

Overcas, threatening weather, oqually Ed nawy first two hours. at 4.46 got.

under way and steamed through Nuruma-no. Leto channel Ed passed out of argin Leto at 7.00 Commidg Officer as come Made sail to top-glls. pails as 5.00 Ed set fore sail as 6.00

Sugar odinary From 8 aM to Meridian:

Blowdy with passing rain squalls. Sentle to moderate breeze from

East, gradually hauling to M.E. at end of ratch. Sleaving through Inland dow with plain vail to

royals, on St. 21 nd. courses baptain or Marijator at the come at 9.30 mustered at quarters, at 11.30 dura
Suine bord N.W. distant to mile. at 12.15 startes free in 1 & 3 brilers 8.5, 71.6

From Meridian to H.P.M.

Changed course to M.N. Mp. M. Hjo- Suine bearing M. by N. at 2-15 took in ognan sail. at 2-30 connected

on boilers 1 & 3 at end of natch heading m. n. n. h. N. under six boilers & for and aft sail From 4 to 6 P.M. View U. J. M. Overcas, with drugling rain. Light airs Ed bruge from med Ed M. M. Passed three English mew-of-was standing to the Ed. at 4,50 mest end of Huin Dima on fort beam! Hote in ford Ed aft sail Ed furled foresail, the course W M W/W Nand in sight on Otto hand last hour of watch. Mastoggatt From 6 to 8 P.M. Ousign U.D.M. It Countine From 8 P. M. to Midnight:Overcost, hazy, light anyzh last hour: light airs from I. W. to W.M. at 8.33 auchored in 6 fms. water, with 30 fms. on port chair; soft bottom. Bonked fire.
Dinions Daki light bore M.M. I'M. from anchorage, distant about 7/4 miles. Draft forward
13-4", aft 13-5". Current setting to Med; drift at 10 P.M. 6 Knots. Clack natur about 11.30 Busign U. D. M.

Examined and found to be correct.

Long alloway Cheur and Navigator.

| | | | Reading | | WIND. | | | | BARONETER | TEM | | | State of | Forms of | Clear oths. | no Non |
|-------|--------|---------|-----------------------|--|-----------------------------------|--------|-------|---------|------------------------------|--------------------|----------|---------------------|-----------------------------|-------------------------|-----------------------|--------------|
| Hour. | Knots. | Touthe. | of Patient Log. | by Standard Compass. | Direction by Standard Compass. | Porce. | Heel. | Leeway. | Height Then in inches. actid | Air, Dry Bulli, | Air, Wet | Waterat Surface. | the Weather, by symbols. | Charles, by symbols. | Prop. of 8ky, in 1 | State of the |
| . M. | | | | n. n. | n. m. | , | | | 29.00 68 | 167 | 66 | | 6.e.z. | Come nucle. | 4 | d |
| 9 | | | | | , | 1 | | | 29.65 68 | 67 | 65 | | , | | 7 | 3 |
| - | | | | n. n. m. | , | 1 | | | 29.00 68 | 67 | 66 | | | | 2 | |
| | | | | | | 1 | | | 29.06 68 | 67 | 64 | | | | 3 | - |
| - | | | | n. n. | N | 1 | | | 29.60 67 | 67 | 65 | | - | | 2 | |
| | 6 | 3 | 98.0 | d. 71/4 71. | n by A. | 1 | | | 29.61 68 | 67 | 65 | | , | | 1 | - |
| - | 1 | 1 | 105.1 | 01 -0-1/10 | n. 7. W. | 2 | | | 29.63 68 | 67 | 65 | | 0.0.3. | 2- | 0 | |
| | | | 14.0 | nor a no | North | 3 | | | 29.65 68 | 46 | 64 | 68 | * | EinBur . | 0 | 1 |
| | | _ | | W. by A. | 7 | 4 | | | 29.65 61 | 66 | 65 | 68 | 6. c | | 2 | 2 |
| | | | 32.9 | | | 4 | | | 29.65 67 | 7 67 | 65 | 68 | 7 | | 1 | |
| 11 | 9 | 3 | 422 | D. M. by M. 7. | 1.71.8. | 4 | | | 29.65 68 | 67 | 65 | 67 | 0. c.d. | Reint | 0 | |
| | | | | The state of the s | | 4 | | | 29.68 68 | | | | | | 2 | - |
| Noon. | 9 | 5 | 31.7 | | - | # | | | 29.68 68 | 861 | 60 | 67 | 6.00. | * | | ~ |

| Course and distance mad | le good since preceding noon by observation | ns, twious (Crasting |) /30 knots. / | tenths. |
|-------------------------|---|----------------------|-----------------------------|----------|
| | atitude by D. R. | * | . , | " |
| | ongitude by D. R. | | . , | " |
| Position at Noon: | atitude by observations of ⊗ | | | |
| L | ongitude by chronometer from Forencon (| Observations of @ | · , | " |
| (14 | atitude by | | 0 / | " |
| Position at 8 a. m. | ongitude by | | | , |
| (I | atitude by | | . , | 11 |
| Position at 8 P. M. | ongitude by | | . , | " |
| Current during the time | e, lenots tenths per hour, | setting to the | | |
| Variation of the Compo | ss by Amplitude O observed at Sunrise, s | hip's head | . , | " |
| Variation of the Compa | ss by Amplitude @ observed at Sunset, | - | . , | " |
| Variation of the Compa | es by Azimuth © observed at | 4 | . , | " |
| Variation of the Compa | es by Azimuth ⊙ observed at | 4 | | " |
| Water expended during | the preceding 24 hours, | | 350 | gallous. |
| Water | during the preceding 24 hours, | | | - |
| Water remaining on has | nd fit for use at Noon, | | 1750 |) " |
| Coal consumed during t | he preceding 24 hours, | | 17 50 15 tons 6 76 "2 | 40 lbs. |
| Coal remaining on hand | at Noon, | | 76 "2 | 84" |
| | 101000 | | SERVICE SERVICE | |

| P.M. | 14 | 53.1 | 0.n.byn/rn | | | | | | | |
|------|-------|------|-----------------------|------------|---|-------------------|-------|----------|---|----|
| 1 | 68 | 69.9 | 0.71. 1.71 14 TI. | n. n. E. | 4 | 29.68 68 67 65 67 | 6.02. | Cirluw. | 5 | M |
| 2 | 09. | 70.8 | Fr. B. W. To M. | , | 4 | 29 68 68 67 65 67 | ,0 | " | | |
| 3 | 98 | 80.0 | O.71. by 21/2/1. | * | 4 | 29.68 68 67 65 67 | 7 | " | 5 | 4 |
| 4 | 37 | 85.7 | 0.71 kg/1.0.0.71 km. | | 4 | 29.70 70 68 60 67 | " | Cin Cum, | 4 | , |
| 5 | 3,004 | 95.0 | 0 d 11 /4 17 | " | 4 | 29.70 70 69 67 67 | | " | | |
| 4 | 23 | 2.5 | D. by m. 0/4 m. Douth | n.E. | 4 | 29.69 69 68 65 67 | 7 | 4 | 3 | 1 |
| 7 | 331 | 19.7 | V.D.61/26. | 71.6 by 6. | 4 | 29.68 68 67 6566 | , | , | 6 | , |
| 4 | 102 | | D. E. 3/4 8. | " | 4 | 29.69 69 67 65 66 | " | " | 6 | 1 |
| | 91 | | 0.8.46. | | 4 | 29.68 69 68 65 66 | b.c. | Ciplina | 8 | |
| | , | | D. E. by 6. 16. | M. E. | 4 | 29.71 68 68 65 66 | " | " | 9 | Ø. |
| 11 | | | | " | 3 | 2971 68 68 65 66 | , | 1 | 9 | |
| Mid | | | 7.6. | | 2 | 29.71 68 67 64 | | | 9 | - |

I teamer Essex

| Moord in the harbor of | of Macasaki | Japan. |
|-------------------------|-------------|--------|
| The own of the state of | | |

| | | Reading | | WIND. | | | | BAROMETES | | | | State of | Forms of | Clear Oths. | - San |
|-----------------|---------|----------------|-----------------------------------|-----------------------------------|--------|-------|---------|---------------------------|-------------------|----------|---------|-----------------------------|------------------------|--|--------------|
| Hour. Knots. | Tenths. | Patent Log- | by Standard Compass. Ohips Head. | Direction by Standard Compass. | Force, | Heel. | Laeway. | Height The in inches. att | Air, Dry Bulb. | Air, Wet | Waterat | the Weather, by symbols. | Clouds, by symbols. | Prop. of Sky, in 1 | State of the |
| . M. | | | 71.6. | N.E. | 2 | | | 29.716 | 66 | 64 | | 6.c | Cum | 9 | |
| 2 | | | 71. 6. by 6. | | 2 | | | 29.71 6 | 8 66 | 64 | | | | 9 | |
| 3 | | | 8. 71.8. | 7 | 2 | | | 29.70 6 | 8 66 | 64 | | 7 | | 9 | 1 |
| 4 | | | East | , | 4 | | | 29706 | 8 61 | -63 | | 7 | * | 9 | 1 |
| 5 | | | & by 71. | Vr. Sr. E. | 2 | | | 2970 6 | 7 68 | -64 | - | 6.02 | Cir. | 7 | - |
| 6 | | | 8. h. E. | " | 2 | | | 29.746 | 8 66 | 64 | | b.cz. | " | 7 | |
| 7 | | | 11.8 | . , | 2 | | | 29756 | 967 | 65 | | 7 | 7 | 7 | 1 |
| 8 | | | 4 | North | 2 | | | 29,767 | 0 68 | 65 | | * | 7 | 7 | 1 |
| 9 | | | N. E. by E. | | 2 | | | 29.76 7 | 170 | 68 | | b.c. | , | 8 | |
| 10 | | | N. by E. | 9 | 2 | | | 29.7678 | 3 71 | 69 | | 7 | | 7 | - |
| 11 | | | A. E. by E. | D. S.M | 2 | | | 29.76 78 | 3 7 | 269 | | " | * | 6 | 1 |
| Soon. | | | - 10 | 0. W. | 2 | | 1 | 29.78 14 | 473 | 69 | | - | * | 6 | - |
| Noon. | | | D. E. by G. South | | | | | | | | | * | * | The Paris and In Continued in C | |

| Course and distance | made good since preceding noon by observations, | wheno | (Coastria) | 94 knots. | B | tenths. | | |
|----------------------|--|------------|------------|-----------|-----|----------|---------|-----|
| | (Latitude by D. R. | | | ۰ | | ** | | |
| | Longitude by D. R. | | | • | , | " | | |
| Position at Noon: | Latitude by observations of ⊙ | | | • | - | " | | |
| | Longitude by chronometer from Forencon Observat | tions of 3 | | • | , | " | | |
| | (Latitude by | | | 0 | , | - 15 | | |
| Position at 8 a. m. | Longitude by | | | • | , | " | | |
| | (Latitude by | | | | , | " | 1000000 | |
| Position at 8 P. M. | Longitude by | | | • | , | " | | |
| Current during the t | ime, knots tenths per hour, setting t | o the | | | | | | |
| Variation of the Cor | npass by Amplitude ⊙ observed at Sunrise, ship's hea | d | 47 | a | , | # | | 100 |
| Variation of the Con | npass by Amplitude ⊙ observed at Sunset, " | | | • | , | " | | |
| Variation of the Con | npass by Azimuth ⊙ observed at " | | | 0 | , | " | | |
| Variation of the Con | npass by Azimuth ⊙ observed at " | | | | , | " | | |
| Water expended dur | ing the preceding 24 hours, | | | | 350 | gallous. | | |
| Water | during the preceding 24 hours, | | | | | | | |
| Water remaining on | hand fit for use at Noon, | | | 1 | 40 | 0 " | | |
| Coal consumed durin | g the preceding 24 hours, | | | | | Too lhs. | | |
| Coal remaining on h | and at Noon, | | | 64 | 10 | 24 = | | |

| Р. М. | | | | | | | , |
|-------|-----------|---------|---|----------------|---------|------|------|
| 1 . | d. W. | D.71 | 2 | 29,76 74 73 69 | 6.03. | Cur. | 51 |
| 2 | O. W by W | " | 2 | 29.76 75 74 69 | * | , | 6 4 |
| 3 | ,/ | , | 2 | 29.75757470 | , | 7 | 4 " |
| 4 | D. A. W. | 11 | 2 | 29.75757470 | 7 | 7 | 6 4 |
| 5 | Ø.n | J. J. W | 1 | 29.73 76 7570 | G.C. | " | |
| 6 | Ø. W | | , | 29.72767570 | " | " | 3 . |
| 1 | " | D.71 | , | 29.74 74 7569 | " | " | 4. |
| 8 | | " | 1 | 24,74 74 7269 | 6.0.2. | " | 0 - |
| 9 | Douth | , | 1 | 29.76 73 7269 | 6.77.3. | none | 10 . |
| 10 | 0.0.77 | " | / | 29,76 7271 69 | , | ", | 10 2 |
| 11 5 | Douth | " | 1 | 29,79727068 | , | " " | 10 . |
| Mid. | 6. N.C. | Calm. | 0 | 29.79727068 | | - | 10 ' |

under the command of Commander J. F. Jewell Sunday June 10th , U. S. Navy, , 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Commences Ed until 4 N. M. bleas from M. E. bleas haves. From & M. M. to & N. M.

Partly clear with circum clouds, Hay bright and pleas and
Light bruze from M. St. & to Morth. Got ship into port trim. Dent down
royal yards. Clear hawse. Fires banked

From & a.M. to Mendian:

Gusign U. D. M.

George & worm, outh bressed wariable in direction Doubled. blear Ed warm; gruthe breezes variable in direction. Ohifled moonings; at 9-35 let go starboard anchor in 7 fms. of mater and record to 30 fms. on on the chain. Mustered and inspected crew as quarters at 10.00. at 9-50 trauled fires from under the six steaming boilers Ed started fires under boilers Nos. 1 8 3 for destelling. Boarding-officer from Russian Corvette Kinda paid an official From Meridian to 4 P. M. Sight breeze from Design of Sustained of State of From 8 P.M. to Midnight: Sight airs from D. W. till
last hour when calm. Distilling Susign U. O.M. Examined and found to be correct.

Top Galloway Ed

Noon.

9 ,

| | | | | | 0 | | 1 | | (| / | / | | | | | | |
|-------|--------|---------|----------------------|-------------------------------------|-----------------------------------|--------|-------|---------|----------------------|-----------------|--------------------|-------------------|----------------------|-----------------------------|---------------------|---------------------|-------------|
| | | | Reading | | WIND. | | | | BAROME | TER. | TEME | ERAT | URE. | State of | Forms of | Hear other | e Sea. |
| Hour. | Knots. | Tenths. | of Patent Log. | OURSES STEERED by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. att'd. | Air, Dry Bailb. | Air, Wet Bulb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Sky, in 10 | State of th |
| A. M. | | | | | | | | | | | | | | | | | |
| 1 | | | | 6 by 0. | Calm | 0 | | 333 | 29,77 | 69 | 69 | 67 | | b.n. | None | 10 | S. |
| 2 | | | | E by 21, | East | 1 | | | 29.78 | 68 | 68 | 66 | | " | 7 | 10 | , |
| 3 | | | | " | " | 1 | 1 | | 29.78 | 68 | 68 | 66 | | " | , | 10 | , |
| 4 | | | | & by R. | " | 1 | | | 29 78 | 67 | 67 | 60 | | 7 | | 10 | , |
| 5 | | | | Jr. 6 by 6. | n.n.E. | 1 | | | 29.78 | 67 | 65 | 64 | | B.on. | Circum + Wrat | 1 | |
| 6 | | | | | " | 1 | | 188 | 29.78 | 67 | 65 | 64 | | * | Cir | 6 | 1 |
| 7 | | | | En. E. | 1 | , | | 100 | 29.80 | 68 | 66 | 44 | | b.03. | | 8 | , |
| 8 | | | | | | 1 | | | 29.80 | 68 | 68 | 66 | | 4 | " | 2 | , |
| 9 | | | | N. E by 21. | N. E by Nr. | , | | | 29.81 | | | | | 6.c. | ,, | 9 | |
| 10 | | | | n by 8. | | 1 | | | 29.82 | | | | | | 3 | 1 | |
| 11 | | | | A. A. M. | South | 2 | | | 29.82 | 1 | - | | | , | " | 8 | |
| | 1000 | 200000 | District Co. | | | 17.00 | | | | | | | | | | 17000 | |

| Course and distance made good since preceding noon by observations, | knots, tenths. |
|--|------------------|
| (Latitude by D. R. | |
| Longitude by D. R. | . " |
| Position at Noon: { Latitude by observations of ⊙ | . , , |
| Longitude by chronometer from Forenoon Observations of ⊙ | 0 , " |
| (Latitude by | 0 / // |
| Position at 8 a. m. Longitude by | • / // |
| (Latitude by | 0 / // |
| Position at 8 P. M. Longitude by | . , , |
| Current during the time, knots tenths per hour, setting to the | |
| Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head | 0 , " |
| Variation of the Compass by Amplitude ⊙ observed at Sunset, " | . , " |
| Variation of the Compass by Azimuth ⊙ observed at " | 0 , " |
| Variation of the Compass by Azimuth ⊙ observed at " | · / // |
| Water expended during the preceding 24 hours, | 350 gallons. |
| Water Sistilled during the preceding 24 hours, | 1800 " |
| Water remaining on hand fit for use at Noon, | 2850 " |
| Coal consumed during the preceding 24 hours, | 2 tons 1680 lbs. |
| Coal remaining on hand at Noon, | 61 " 1584" |
| | |

29. 82 73 73 69

| P.M. | , , | | | | | | | |
|------|-------------|---------|-----------|-----------------|------|------------|----|----|
| 1 | Ø. J. M. | South | 2 | 29.81 76 75 71 | 60.2 | Cir Cum. | 7 | 0. |
| 2 | AM by A. | " | | 29.79 77 7572 | | " | | |
| 3 | , / | AMby A. | 2 | 29.79777672 | , | 2 | | |
| 4 | , | , | 2 | 29.78 77 76 72 | " | " | 6 | - |
| 5 | , | A.D.M. | 2 | 29,77 78 76 72. | " | Cum strat. | 6 | + |
| 6 | 1'00 | , | 7 | 29,77 777672 | 4 | " | 6 | 1 |
| 7 | S. W. | " | 2 | 29,77 76 7470 | 7 | 7 | 9 | 1 |
| 8 | | | 1 | 29.78747370 | = ., | " | 9 | - |
| 9 | d. W by f. | Calm | 10 | 29.78 73 73 70 | 63. | , | 9 | - |
| 10 | South | . " | 10 | 29.80 73 73 69 | " | " | 9 | - |
| 11 | | , | 10 | 29.80 73 71 69 | , | * 2 | 9 | |
| Mid. | n. E. by n. | , | 10 | 29.80 72 70 68 | b.n. | None | 10 | - |
| | | | don't see | | | 1 | | |

From Meridian to 4 P. M. Link II. D. M. Severally clear, hazy Light brosze from Inthe D.M. by A. At 7.15 stopped distilling Is hauled fires from Coilers 1213

From & P. M. to Midiughs:
From & P. M. to Midiughs:
Prom & P. M. to Midiughs: -From & P. M. to Midiught: Clear Es fleasaix. Calw.

The Eusign U. A. M.

Examined and found to be correct.

ED Galloway

LOG of the United States Steamer Essel Moored in the harbor of Magasaki Japan

| | | | Danding | | WIND. | | | | BAROME | TER. | ТЕМЕ | PERAT | URE. | State of | Forms of | lear ths. | e Sea. |
|-------|--------|---------|---|-------------|-----------------------------------|--------|-------|---------|-------------------|--------------|-------------------|-------------------|----------------------|-----------------------------|---------------------|--------------------------------|-----------------|
| Hour. | Knots. | Tenths. | Reading of Patent Log. | Dhips Head. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. att'd. | Air, Dry Bulb. | Air, Wet Bulb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Clea Sky, in 10ths | State of the Se |
| A. M. | | | | East | Caliw. | 0 | | | 29.80 | 71 | 70 | 68 | | 6. | Stone. | 10 | S. |
| 2 | | | | 7 | " | 0 | | | 29.80 | 100000 | | | | 6.c | Cum Rtrat | 8 | 1 |
| 3 | | | | € 71. €. | " | 0 | | | 29.80 | 71 | 69 | 68 | | " | " | 7 | " |
| 4 | | | | , | " | 0 | | | 29.80 | 71 | 69 | 68 | | " | neist. | 2 | " |
| 5 | | | | E by M. | 1 | 0 | | | 29.80 | 71 | 70 | 68 | | b.c.f. | , | 1 | 1, |
| 6 | | | | J. S. W. | 1 | 0 | | | 29.81 | 71 | 70 | 68 | | , | cum. | 6 | ", |
| 7 | | | | 8. 0. 6. | " | 0 | | | 29,81 | 72 | 71 | 69 | | " | " | 7 | ", |
| . 8 | | | No. | 0.6 | A. E. | 1 | | | 29.82 | 73 | 72 | 69 | | , | " | 7 | " |
| 9 | - | | * | m.Sr. M. | mnm. | 1 | | | 29.86 | 74 | 73 | 70 | | b.c. | 4 ninel | 1 | 1 |
| 10 | | | | d. W by d. | O. n by A. | , | | | 29.86 | 74 | 73 | 70 | | , | " | 3 | " |
| 11 | | | | d. Wby n | , | 2 | | | 29.86 | 75 | 74 | 71 | | , | Ciscim | 5 | , |
| Noon. | | | | A. W by D. | , | 1 | | | 29.86 | 70 | -75 | 71 | | | " | 7 | , |
| | | | | | | 1 | | | | | | | | | | | |

| Course and distance made good since preceding noon by observations, | knots. | tenths. |
|--|-----------------|------------|
| (Latitude by D. R. | 0 , | " |
| Longitude by D. R. | 0 / | " |
| Position at Noon: { Latitude by observations of ⊙ | 0 , | " |
| Longitude by chronometer from Forenoon Observations of ⊙ | 0 / | " |
| (Latitude by | . , | " |
| Position at 8 a. m. Longitude by | 0 / | " |
| (Latituda by | 0 / | " |
| Position at 8 P. M. Longitude by | 0 / | " |
| Current during the time, knots tenths per hour, setting to the | | |
| Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head | 0 / | " |
| Variation of the Compass by Amplitude ⊙ observed at Sunset, " | , | " |
| Variation of the Compass by Azimuth ⊙ observed at " | 0 , | " |
| Variation of the Compass by Azimuth ⊙ observed at " | 0 , | " |
| Water expended during the preceding 24 hours, | 33 | O gallons. |
| Water Distilled during the preceding 24 hours, | 20 | |
| Water remaining on hand fit for use at Noon, | 270 | 0 " |
| Coal consumed during the preceding 24 hours, | 270 1 tons 1 | do lbs. |
| Coal remaining on hand at Noon, | 60 114 | 144 " |

| P. M. | | 1 1 | | | | | |
|-------|-------------|---------|-----|----------------|-------|--------|-----|
| 1 | E by A, | South | , | 29,86 757570 | be. | Cir. | 8 1 |
| 2 | d. b. M. | S.J. W. | 0-1 | 29.85 76 76 71 | | Cum. | |
| 3 | , | " | 0-1 | 29.85 77 77 72 | | " | |
| 4 | D. by W. | South | 0-1 | 29.85 78 77 72 | , | 4 | 4. |
| 5 | A. W. | Calm | 0 | 29,80 79 78 72 | " | Cilim. | 2" |
| 6 | " | ,, | 0 | 29 79 80 78 73 | | " | 1 " |
| 7 | " | d.m. | 1 | 29.80 787772 | o.cd. | Kins. | 0, |
| 8 | S. by W. | " | 1 | 29.80 77 76 73 | ", | , | 0, |
| 9 | 88.6. | N. E. | 1 | 29.80 757470 | oct. | " | 0 " |
| 10 | St. W. | V.m | , | 29.80747370 | ocd. | | 0, |
| 11 | A.A.W. | Q. 7. | 1 | 29.80 747370 | " | | |
| Mid. | N. E. by H. | " | 1 | 29.80 74 73 71 | 0,00. | | 0 " |
| | | | 11 | 1 1 1 1 | | | |

under the command of Commander J. F. Jewell June 12th , U. S. Navy, , 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Commences Ed until H N.M. Caluv. Clear at first; clouding over during. watch. From 4 to 8 S. M. Lieux U.S. M. Lieux U.S. M. Seenjun Lieux U.S. M. Seenjun Lieux U.S. M. Seenjun Lieux U.S. M. 1 8. 8. Mistoggatt From 8 A. M. to Meridian - Cousign U. A. M. Partly clear with cir, cuw, Ed Minch. clouds. Bright and warm - Light airs to breeze from nn nn to D. n by d. At 825 commenced coaling ship. By order of Commady. Officer, released & Moreau (Bayamau), the term for which he was confined having expired. Russian courses Vitray came in Sent aw officer to extend usual constesies. At end of watch had put 71/4 tono of coal in bunkers, as taking a deckload. Tumer's gang shortening new Greechings for broadside battery. From Meridian to 4 P. M. Quesign/ U AM. Fair Ed marm; light Sty, airs. Received oil board 28 1/4 tons of coal making 100 tons altogether; "Id 500 lbs. of Tobacco in Paymaeters Dept. aw officer from the Russian Corrette "Veties," returned the call of the Essex's boarding-officer, and the Comde officer of the "Veties called.

Sugh Rodinan & M. Eurign U.S. n. From 4 to 8 P.M. Overcast and cloudy. Driggling rain last fast of watch balus first half, light airs from D. W. last half Making preparations for sea. By order of borned, Officer released Frederick Amith (sea) from confinement. The Dudck (Lis) by his own request, was this day discharged from the Maral service Edicta for the Cruise Morikaux Birmock asks Sands man. From 8 PM. to Midnight: - D'Ensign U. A.M. Overcast, with rain. Sight airs from ME, NM, Ed D.W. Will oggatt Eusign U D.71.

Examined and found to be correct.

Los Galloways and Navigator.

| | | | Reading | | WIND. | | | | BAROME | ETER. | TEME | ERAT | URE. | State of | Forms of | lear ths. | ie Sea. |
|-------|--------|---------|----------------------|--------------------------------------|-----------------------------------|--------|-------|---------|-------------------|--------------|-------------------|-------------------|----------------------|-----------------------------|---------------------|--------------------------------|--------------|
| Hour. | Knots. | Tenths. | of Patent Log. | COURSES STEERED by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. att'd. | Air, Dry Bulb. | Air, Wet Balb. | Water at Surface. | the Weather, by symbols. | Clonds, by symbols. | Prop. of Clea Sky, in 10ths | State of the |
| A. M. | | | | 11 E by E. | A.m. | , | | | 29.80 | 73 | 72 | 70 | | 0.0.7, | Quiu. | 0 | Ø |
| 2 | | | | E. S. E. | East. | 1 | | | 29.79 | 73 | 77 | 70 | | bij. | " | 2 | 4 |
| 3 | | | | ASt. E. | 4 | , | | | 29.78 | 73 | 72 | 70 | | " | " | 2 | , |
| 4 | | | | N.E. | , | 1 | | | 29.76 | 73 | 72 | 70 | | 7 | 1 | 2 | " |
| 5 | | | | A. E. by E. | " | 1 | | | 29.75 | 73 | 72 | -70 | | O,C, | 6 | 0 | 4 |
| 6 | | | | n 64 0. | Calm | 0 | | | 29.74 | 73 | 73 | 71 | 71 | 0.C.N. | , | 0 | 4 |
| 7 | 8 | 0 | 8.5 | , | D. W | 1 | | | 29.75 | 74 | 72 | -71 | 71 | + | " | 0 | " |
| 8 | - 6 | 9 | 17.4 | .1 | A. by W. | 3 | | | 29.70 | 74 | 71 | 20 | 70 | , | " | 0 | 1 |
| 9 | 8 | 1. | 25,7 | , | S. W. by W. | 2 | | | 29.74 | 173 | 72 | 71 | 70 | 0.c.d.f. | " | 0 | |
| 10 | | 4 | / | " | MA.M. | 2 | | | 29,73 | | | | | 11 | 1 | 0 | , |
| 11 | 8 | 3 | 42.4 | , , | A.M. | 3 | | | 29.71 | 23 | 73 | 72 | 20 | oof. | 1 | 0 | " |
| Noon. | 11 | 1 | 48.9 | m. p. n. /2 21. | | 3 | | | 29.69 | 74 | 73 | 72 | 69 | | " | 0 | , |
| | | | | | | | | | | | | | | | | | 1 |

| Course and distance made good since preceding noon by observations, Various (Co | |
|---|------------------|
| Latitude by D. R. | 32.29.30" St. |
| Longitude by D. R. | 128 . 45, " 6. |
| Position at Noon: Latitude by observations of ⊙ | 0 , 11 |
| Longitude by chronometer from Forenoon Observations of ⊙ | 0 / // |
| (Latitude by T.C. | 32°39' " A. |
| Position at 8 a. m. Longitude by R. | 129 . 25 30 " 6. |
| | 33° 01′ ″ N |
| Position at 8 P. M. Longitude by The Longitude by | 127° 45 " E |
| Current during the time, knots tenths per hour, setting to the | |
| Variation of the Compass by Amplitude ⊙ observed at Sunrise, ship's head | 0 / // |
| Variation of the Compass by Amplitude ⊙ observed at Sunset, " | 0 / " |
| Variation of the Compass by Azimuth ⊙ observed at " | 0 , " |
| Variation of the Compass by Azimuth ⊙ observed at " | • , , |
| Vater expended during the preceding 24 hours, | 3 VO gallons. |
| Vater during the preceding 24 hours, | |
| Vater remaining on hand fit for use at Noon, | 2350 " |
| coal consumed during the preceding 24 hours, | 7 tons 560 lbs. |
| coal remaining on hand at Noon, | 153 " 884 " |

| 1 43 61.5 hn ninn. An byn 3 29.70 73 72 72 70 O.C. | 1 1. | | |
|---|----------|-----|-----|
| | 7. Fruit | 0 1 | 31, |
| 1 43 61.5 hn. n. 1/2 N. AN 64 N 3 29.70 73 72 72 70 O.C. 2 74 68.9 n n 1/4 2. AN. 3 29.68 73 73.72.70 | 7 | 0 | 4 |
| 3 8 8 28.4 " 4 29.66737271720.0 | m " | 0 1 | - |
| 1 83 86.7 " AN by M. 4 29.6474727172 " | , | 0 1 | |
| 5 77 944 " Wby A. 4 29.60 74 7271 71 O.C. | 1. 1 | 0 | |
| 6 79 023 " 4 29.66 74 71 71 71 000 | | 0 | |
| 7 78 10.1 " 34 29.66 73 71 71 70 0.54 | . , | 0 | 4 |
| 8 72 17.3 m m / m Med 34 29.65 7270 7070 " | , | 0 | , |
| 9 73 246 11 11/2/1. 11.11. 3 29.6472707020 , | : | 0 | |
| 10 7 8 3 2,4 " MM W. 2 39.6 471 70 69 16 " | " | 0 | |
| 11 77 40.1 " 7 29.647,69 69 70 0.0 | /. " | 0 0 | |
| Mid. 79 48.0 " 29.6491706969 " | | 0 | 1 |

under the command of Commander J. F. Jewell, U.S. N. Wednesday June 13th, 1888. , U. S. Navy, RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Commences Ed until 4 a.M.,
Overcast and raining first hour; clearing afterwards, CloudsCuw. Ed Nimb. Light airs from A.M. first hour, East afterwards, Hagy after
first hour. At 1.05 started fire in six boilers From 4 to 8 a. M. Eusign U. A. M. Eusign U. A. M. Overcast hazy, rainy, thereatening weather, calm Ed light briengs freshening from As. Ed md. Sot under way at 10,00 Ed stood out to sea's at 6.00 From Mendian to 4 P. M.

Greshening from St. to Me. Sot under way at \$1.00 4d stood out to sea; at 6.00 Hook departure Ino-minate Light fore (po) D. by N. distant fr mile, Course N. by A.

P.S. O. Let fore & aft sail & foresail at 7-40. Slips srangly 14.3 ft. 16.4 off.

From 8 am to Mendian

Overcast & foggy, with driggling name first half. Light to gentle breeze from D. N. to H. D. Y. At 900 took in foresail & fore & aft sail. Steaming course N. by D. mutil, 11.00 when changed to m D. N. & at 11.20 to M/r N. Det back dock 214 Mint. P.S. 53.5

From Mendian to 4 P. M.

Coloudy & mety, with fog during first two librars. Hentle to moderate breezes from D. N. & J. H. by N. at 12.34 changed course to m. n. N. 2 N. P. S. 57.8 at 17.37 set fore & aft sail. at 1.45 sighted Osi Dake Point, bearing about M. at 1.45 At 17.37 set ford Et aft sail. at 1.45 sighted O-si-sake Point, bearing about M. at 1.45 set forsail. at 1.55 changed course to M. M. 44 W. P. S. 68.9

From 4 to 6 P. M.,

Overcast, with thick heavy fog. Mod. brugge from W. by A.

On course M. M. 3/4 W. at 4.05 took in El furled for sail Mod. sea.

Molloggatt From 6 to 8 P.M. Every to No. Overcast, with cum Es much clouds Heavy, not fog till 7.20 when raw out of it. Gentle to mod. brozes from W. by 8. to West. at 7.15 took in fore Ex aft sail. Mod. sea this rolling easily, Under steam alone at end of watch, on course N. W. H. W.

H. Coundstone. From 80.M. to Midnight: - Eusign U. S. M. Overcast Ed foggy; gruthe freeze from M. M. Noto M. N. Det ford and aft sail at 10.00 Ed took it in at 10.05. By order of Comidg. Officer changed course to N. W. M. A. 8-00

Eusign U. S. N.

Examined and found to be correct.

Top Galloway Nacigator.

LOG of the United States Steamer Essel , 3 Rate, axen on the passage from Magasaki Japan to Chemulps, Coreal.

| | | | Reading | | WIND. | | | | BAROME | TER. | TEME | ERAT | URE. | State of | Forms of | f Clear 10ths. | e Sea. |
|-------|--------|---------|----------------|---|-----------------------------------|--------|-------|---------|-------------------|--------------|-------------------|-------------------|----------------------|-----------------------------|---------------------|--------------------------|----------------|
| Hour. | Knots. | Tenths. | of Patent Log. | COURSES STEERED by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. att'd. | Air, Dry Bulb. | Air, Wet Bulb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of C Sky, in 10 | State of the S |
| . M. | 7 | 2 | 250 | Andry | A.A.M. | 21 | | | 2967 | 74 | 76 | 99 | 69 | 0,0, | Cum | 0 | 70 |
| 2 | 5 | 185 | 63.0 | A. N./2 76. | " | 21 | | | 29.66 | 72 | -68 | 68 | 69 | 0.C.d. | " | 0 | - |
| 3 | | | 68.2 | | , | 2 | | | 29.65 | 100 | | | | | " | 0 | |
| 4 | | | 73.4 | | * | 2 | | | 29.68 | 71 | 67 | 66 | 69 | ., | , | 0 | |
| 5 | 0 | 67 | 74.0 | AAMIN. | A. M. | 2 | | | 29,68 | 70 | 66 | 65 | 68 | 0.0, | , | 0 | |
| 6 | 7 | - | 86.8 | " | " | 3 | | | 29.71 | 67 | 66 | 60 | 67 | 0,0,1/ | , | 0 | 1 |
| 7 | 7 | 7 | 94.5 | " | " | 3 | | | 29 74 | 67 | 60 | - Cey | 67 | " " | , | 0 | 1 |
| 8 | 123 | 666 | 98.7 | 7/2 M. W. M. M. | " | 3 | | | 29.74 | 66 | 64 | 63 | 66 | " | , | 0 | - |
| 9 | 7 | 7 | 10.0 | " | , | 3 | | | 29.70 | -67 | 60 | -64 | 166 | 1 | " | 0 | - |
| 10 | 7 | 8 | 17.8 | | , , | 3-4 | - | | 29.70 | -67 | 65 | 64 | 66 | - " | , | 0 | 1 |
| 11 | 2 | 0 | 25.6 | n. n. 1/4 m. | A. St. M. | 13 | | | 29, 75 | 66 | 64 | 63 | 66 | 0.0,d. | " | 0 | - |
| Noon. | 4 | 4 | 27.0 | m m"al m | " | 3 | | | 29.70 | -67 | 60 | 64 | 666 | 00 | " | 0 | 1 |

| | (Latitude by D. H. Bearing) | | 33° 56 | , | " N |
|----------------------|--|----------------|----------|----|----------|
| | Longitude by DR. | | 126 . 11 | , | " E |
| osition at Noon: | Latitude by observations of ⊙ | | 0 | , | " |
| | Longitude by chronometer from Forenoon Obse | ervations of ⊙ | • | , | " |
| | (Latitude by | | • | , | " |
| osition at 8 a.m. | Longitude by | | • | , | " |
| | (Latitude by | | • | , | " . |
| Position at 8 P. M. | Latitude by Longitude by | | • | , | " |
| Current during the | time, knots tenths per hour, setti | ng to the | | | |
| Variation of the Co | mpass by Amplitude o observed at Sunrise, ship's | s head | • | , | " " |
| Variation of the Co | mpass by Amplitude o observed at Sunset, | " | 0 | , | " |
| Variation of the Con | mpass by Azimuth ⊙ observed at | " | ۰ | , | " |
| Variation of the Con | npass by Azimuth ⊙ observed at | " | ۰ | , | " |
| Vater expended dur | ing the preceding 24 hours, | | 30 | 0 | gallons. |
| Vater | during the preceding 24 hours, | | | | " |
| Vater remaining on | hand fit for use at Noon, | | 200 | 10 | " |
| coal consumed durin | ng the preceding 24 hours, | | 17 tons | 3 | o lbs. |

| | P. M. | | | 4 24 2/ 24 | | | |
|---|-------|-----|-------|-------------------------------|-------------|-----|-----------------------------------|
| | 1 | 0 8 | 35.0 | n. 77. 3/4 M. n. 77. by n. | N. n. by M. | 3 | 29.70 66 60 63 66 O.C. nint. 0 S. |
| - | 2 | 286 | 46.4 | n.n. 7/3/4 27. | , / | 3-4 | 29.76 66 65 63 62 " " " " " |
| 1 | 3 | 496 | 58.9 | n. n. 77 /2 77. | n.n. m. | 3-4 | 29.75 65 Carl 6259 " " 0 89. |
| | 4 | 2 2 | 640 | | " | | 29.75 Cef 62-60 09 " " 0 " |
| 1 | 5 | | 71.5 | 71. 3/4 77. | n. by m. | 3 | 29.75 64 62 61 59 " " xstr. 0 D. |
| 1 | 6 | 604 | 72.3 | n. 67 m. | , , | 3 | 29.75 646261 59 " " 0 1 |
| 4 | 7 | 82 | 79.4 | " | North | 2 | 29.76 64 62 61 59 " " " 0 " |
| 1 | 8 | 24 | 995.9 | n. 1/4 8. | n.n.m. | 2 | 29.77 60 63 61 59 60. |
| 1 | 9 | 80 | 3.9 | " | " | 2 | 29.77 60 63 61 59 bc. Circum 2, |
| | 10 | 83 | 12.2 | , | " | 2 | 29.79 60 63 62 61 " , 6 , |
| 4 | 11 | 86 | 20.8 | | " | 2 | 29. 29 65 63 62 62 " Cien 8" |
| 1 | Mid. | 81 | 28.9 | , | | 2 | 29. 98 65 63 62 62 . Elin 8 1 |
| - | 2500 | | | | | | |

under the command of Commander J. F. Jewell, U. S. Navy, Thursday June 14th, 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Commences Ed until Ha.M. nnn. Steaming course n. n./s n. until 1.45 When changed to n. by W. Ship rolling easily Smooth sea. Slowed down the engines at 1.45 O. L. 73.4 To oring Ensign U. J. M. From H to 8 A. M. Consign U.S. Sight to gentle bruge from n. W. ax 4.00 changed course to n. n. n/2 m. 20 went ahead at full speed. at 7.15 changed course to M. In M. P. L. 96.1 as 7.15 eighted Maissonnewo ax 7.25 Montrevel bore M. E. 3/4 M.; Maissonnewo N. N.W. P. S. 98. ax 7.30 changed course to m.n. W. S. 98.7 Ed sex fore and afx sailas at 7.00 Ed took them in at 7.78 CA. F. Sichhum Lieux U.A.M. From 8 am to Meridiaev: hour of watch. Sentle to mod. bruge from n. M. to n. M. N. of 10.40 changes course to n M. 4 M. P.L. rd. 8. at 11.18 changed course to M. W. 3/4 H. P.L. 17.0 Pinnacle Rock bearing (p.c.) M. E. 3/4 E. On new course, at end of match Reple Id. bord ipc, 11. 6.1/4 6. Pinnacle Rock S. E. 1/2 6. ships head M.W. new course, at end of march ruppe so. Done of alread during match. Smooth seal.

34 W. Land in sight on exibo. hand Ed ahead during match. Smooth seal.

Most toyant. From Meridian to HP.M. Ousign U.D.M. Overcas, Ed cloudy with cuw Ed nimb. clouds. Sentle to mod breezes from N. M by N to N. N. N. Smooth sea with long swell latter part from N. N. Passed through some tide rips. Steawing through Islands off S. M. coast of Korea, changing course as follows: at 12.57 to M. m. by n. P. S. 35.0. ax 1-40 to nn m. 3/4 m. P. S. 46.4. ax 2.00 to nn n/2 m. P. S. 49.0. ax 2.40 to nn m3/4 m. P.S. St. 9. Ed at 3.20 to MIn M. P.S. V8.7. Quarterly Board of Survey condemned to be thrown overboard one 2/2 El tin of lomators recd. from Mare Island Many yort. Wend of watch under steam alone, on course Jamaton. Suigle Ed Prinacle Islands; Navigator at conn. Seaming up channel between From 16to 8 P.M. From 4 to 6 G.M. Ousign U.S.M. Course, M'W. wetil 7. 70 When changed to My E. at 7.30 Pinnacle Id. borreso, Etr M. Ed Swifter Is. 460, S. by M. P. L. 95.9 Ousign U. A.M. From 8 P. M. to Midnight. Gussaul. Light airs from n. M. M. Course Mt. E. A. F. Techtum Lieux U.A.M. Examined and found to be correct. ter Galloway and Navigator.

| | | | Reading | | WIND. | | | | BAROME | | | | URE. | State of | Forms of | Hear other | le Sea. |
|-------|--------|---------|----------------------|---|-----------------------------------|--------|-------|---------|-------------------|--------------|-------------------|-------------------|----------------------|-----------------------------|---------------------|--------------------------------|-----------------|
| Hour. | Knots. | Tenths. | of Patent Log. | COURSES STEERED by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. att'd. | Air, Dry Bulb. | Air, Wet Bulb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Cles Sky, in 10ths | State of the Se |
| M. | 20 | 18 | 36.0 | n. 14 E. n. by E. | n.m. | 2 | | | 29.78 | 65 | lest | 63 | 63 | b.en. | Cirl. | 7 | 8. |
| 2 | 8 | 0 | 44.8 | , | " | 2 | | | 29.78 | 65 | 64 | 63 | 63 | / | " | 1 | |
| 3 | 8 | 2 | 53.0 | | n. by E. | , | | | 29.78 | 61 | 64 | 63 | 63 | | " | 8 | , |
| 4 | 8 | 6 | 61.6 | , | n.n.E. | 1 | | | 29.78 | 66 | 65 | 63 | 64 | , | " | 7 | |
| 5 | 7 | 8 | 69.4 | 11. by 8 /2 8. | Galm | 0 | | | 29.80 | 66 | 60 | 64 | 60 | " | Cum. | 6 | |
| 6 | 372 | 157 | 77.0 | n 6/8" n/2 E. | nn.E. | 1 | | | 29 79 | 65 | 64 | 63 | 08 | 6.03. | " | 17 | - |
| 7 | # | 17, | 82.4 | n by 6 1/2 6. | " 1 | , | | | 29.79 | | | - | | () | " | 0 | |
| 8 | 8 | 5 | 95.0 | , | South. | 1 | | | 29.79 | 66 | 64 | 63 | 57 | " | Com nint. | 1 | |
| 9 | 8 | 5 | 3.5 | , | " | , | | | | | | | | A.C. | " | 0 | |
| 10 | 0 | v | 3.7 | | | 1 | | | 29.79 | 66 | 64 | 63 | 18 | " | , | 0 | |
| 1 | 30 | 5 | 10. 3 | 71/46 | S. W. by d. | , | | | 29.79 | 60 | -60 | 64 | 18 | 4 | , | 0 | |
| oon. | 23 | 33 | 18.9 | n n 8.126. | " | 1 | | | 29.78 | | | | | | " | 0 | 1 |

| | · · · · · · · · · · · · · · · · · · · | 101 |
|----------------|---|---------------------------|
| Course and dis | stance made good since preceding noon by observations, barrows (Coasting) | 184 knots. 7 tenths. |
| | Latitude by D. R. | 0 / // |
| D. W N | Longitude by D. R. | 0 / " |
| Position at N | Latitude by observations of ⊙ | 0 / // |
| | Longitude by chronometer from Forenoon Observations of ⊙ | 0 / // |
| | (Latitude by Bearings | 36. 24 " |
| Position at 8 | a. m. { Latitude by Bearings Longitude by Bearings | 125 . 57 . 50 " |
| | | , " |
| Position at 8 | P. M. Longitude by | 0 , " |
| Current durin | g the time, knots tenths per hour, setting to the | |
| Variation of | the Compass by Amplitude ⊙ observed at Sunrise, ship's head | 0 / // |
| Variation of t | the Compass by Amplitude © observed at Sunset, " | 0 , , |
| Variation of t | the Compass by Azimuth ⊙ observed at " | 0 , " |
| Variation of t | he Compass by Azimuth ⊙ observed at " | 0 / // |
| Water expend | ed during the preceding 24 hours, | 300 gallons. |
| Water | during the preceding 24 hours, | " |
| Water remain | ing on hand fit for use at Noon, | 1650 " |
| Coal consume | d during the preceding 24 hours, | 16 50 " 16 tons 1820 lbs. |
| Coal remainin | g on hand at Noon, | 119 "1274" |
| | | |
| | | |

| P. M. | | | | | | | | | | | | | | | |
|-------|----|----|------------------------------|--------------|----------|-----|-------|-------|----|----|----|--------|-----------|----|----|
| 1 | | 0 | | カカを/28. | S. S. M. | 2 | 29.76 | 66 | 64 | 63 | 67 | 0.0.3. | Cum nint. | 0 | 5. |
| 2 | 2 | 6 | 35.2 | n.n.E. | " | 2 | 29.76 | 66 | 64 | 63 | 57 | " | 1 | 0 | " |
| 3 | 6 | 4 | 36.6 | n. E. 1/4 M. | 8.8. | 2 | 29.76 | 10000 | | | | 6.c.3. | leex. | 0- | 4 |
| 4 | 33 | 37 | 36.6 43.5 45.0 48.9 | m & by &. | , | 2 | 29.77 | | | | | | 4 | | |
| | | | 59.9 | 4 0 | n.n.E. | 1 | 29.70 | | | | | | " | | 1 |
| 6 | 8 | 5 | 68.4 | | " | 1 | 29.77 | | | | | | Cum | 3 | 1 |
| 7 | | | | D. by W. | S. W. | 1 | 29.77 | | | | | | Cit. | 7 | S. |
| 8 | | | | , " | South | 1 | 29.77 | | | | | | | 6 | " |
| 9 | | | | 0. by 6. | S by 6. | 1 | | | | | | b.cm. | " | 9 | " |
| 10 | | | | n. E. by n. | East | 1 | 39.79 | | | | | | " | 9 | " |
| 11 | | | | n. E. | " | 1 | 29.81 | | | | | | | 9 | " |
| Mid. | | | | 71, 71, 8 | 1 | 1 | 29.81 | | | | | | | 7 | |
| | | | | | | 1 1 | 1 | | | | | | | | |

Low Calloway TEd, Navigator.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences Ed until H N. M. Grow H to & a.M. Clouds-cum Ed nimb. Heavy dew first hour Hogy overland. Calm first hour; light airs from N.E. to East afterwards. Islands in sight on stated. hand throughout watch. Changed course as follows: at 4.0 rto n by 6.1 r &. P.L. 61.6, at J. 24 to n by & P.L. 77.5, at 5-42 to M/2 &. P.L. 75.0 Wal 6.31 to n by E. 4 & P.L. 84. H, which steered to end of match. Sea smooth; Olifo steady. Muder steam alone.
From 8 am to Meridian: - Ensign U. A. N.
Overcast; guille brieze from Ad. Ed No Exercised at largest practice Ed made following expenditures: 3-6lbs charges El fago 60 Par. 3-34lbs charges El fago 8, 12-10 bbs charges El fago 8", 3-12 ozo. charges El fago 3", 3-80zo. shell charges (3") 3-60 Pds per shells 3-8" Butter shelle, 12-5" g" shells, 3-3" Shelle, 10 st. ot. closing primers, 10 Quill friction frime 24 Quill per frimers, 10-3" mex primers, 1 Exercise G.C. norpedo, also I great gun Jasget France Ed I shot plug, it having sunk. Equipment Dept. I Boat anchor, I whip to fth, 3" old. I ford yard tripping line. It anding up west coast of Korea; running by bearings. Let foresail at 10.30 From Meridian to 4 P.M: Ousign N. A. M. bloudy, cleaning last part Light breeze from D. D. T. to D. S. E. Dteaming course nnot &. cutil 105 when changed to n, n &, at 2.10 changed to N & 4 M, at 3-10 to n. E. /4 E. Ed remainder of match on My Es Ely course Captain at the com, P.S. v. 9 From 4 to 6 P. M. Standing up for Chemulpo hartor, Commander conning ship Lieux. 11. A.M. From 6to8 P.M. Generally clear, hazy. Light airs from A.W. Ed South, Exchanged num bers with U. O. O. Dalos. at 6.16 let go etbd. anchor in 8 fr fins. nates at half flood Ed at 6.33 port anchor. Moored with 45 fms. on each chain, slot, andiar down stream Bearing at anchorage official visit from the comes. Officer U. D. D. Palos & from Nussian, Japanese Ed French menof mar in port. Hauled fires from tolers v. 4, 5, 6, 7, 8 & transferred fires to 18 3 for dishtling Mitoggatt lar haiose From 8 Pm to Midnight Gusign U.B.M. Light airs from D. E. to East. Droug to elb. at 8-30. Clear house, Ilrength of elb. at end of watch 1.0 Knot. Started distilling at 11.55 Allowedotone Eusign U. J.M.

Examined and found to be correct.

LOG of the United States Steamer Essel", 3 Rate,

| | | Reading | | WIND. | | | | BAROMETER. TEMPERATURE. | State of | Forms of | lear ths. | e Sea. |
|-------|--------|----------------|-----------------------------------|-----------------------------------|--------|-------|---------|--|-----------------------------|---------------------|----------------------------------|------------------|
| Hour. | Knots. | of Patent Log. | by Standard Compass. Ships Head. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height Ininches. Ther. All Bulb. Water at Surface, Surfac | the Weather, by symbols. | Clouds, by symbols. | Prop. of Clear Sky, in 10ths. | State of the Sea |
| A. M | Est. | | North. | East | , | | | 29.85-66 65-63 | f. c. m. | Cir. | 8 | 8. |
| 201 | lackM | ater | 8.71.6. | " | 1 | | | 29.85 66 65 63 | , | " | 8 | * |
| 3 | Flood | | South | " | 1 | | | 29.84656462 | " | " | 8 | , |
| 4 | | | " | " | 1 | | | 29.84 64 63 62 | " | ", | 6 | " |
| 5 | | | , " | " | 2 | | | 29.84 63 63 61 | b. c. z. | , | 2 | , |
| 6 | | | S. by M. | 4 | 2 | | | 29.85-626361 | | 1 | | |
| 7 | | | , | " | 2 | | | 28.86 64 6261 | " | | 1 | |
| sel | ack Mo | eter. | " " | " | 2 | | | 29.87 65 63 62 | " | " | , | , |
| 9 6 | 286. | | South | A.E. | 1 | | | 29.88 66 64 62 | 0.0.3. | ", | 0 | |
| 10 | | | G.M.E. | " | 2 | | | 29.89 67 66 64 | " | ", | | " |
| 11 | | | Aby E. | E. P. E. | 1 | | | 29,90 68 6764 | big. | | | |
| Noon. | | | | " | , | | | | 0 | ,, | 1 | |
| Noon. | • | | , | | / | | | 29.90 69 68 65 | 0 | | 1 | |

| Course and distance | made good since preceding noon by observation | ns, | knots. | te | enths. | |
|----------------------|---|-------------------|--------------|-----|----------|--|
| | (Latitude by D. R. | | • | , | " | |
| | Longitude by D. R. | | 0 | , | " | |
| Position at Noon: | Latitude by observations of ⊙ | | 0 | , | " | |
| | Longitude by chronometer from Forenoon (| Observations of ⊙ | • | , | " | |
| | (Latitude by | | • | , | " | |
| Position at 8 a. m. | | | 0 | , | " | |
| 11 17 | (Latitude by | | 0 | , | " | |
| Position at 8 P. M. | Lancitude by | | 0 | , | " | |
| Current during the | | setting to the | | | | |
| | | | 0 | , | " | |
| | mpass by Amplitude ⊙ observed at Sunrise, sl | | | , | | |
| Variation of the Con | mpass by Amplitude ⊙ observed at Sunset, | " | 0 | | | |
| Variation of the Con | npass by Azimuth ⊙ observed at | " | • | , | " | |
| Variation of the Con | npass by Azimuth ⊙ observed at | " | • | , | " | |
| Water expended dur | ing the preceding 24 hours, | | 3 | 50 | gallons. | |
| Water Distri | Oled during the preceding 24 hours, | | 6 | 00 | " | |
| Water remaining on | hand fit for use at Noon, | | 19 | 00 | " | |
| Coal consumed during | ng the preceding 24 hours, | | of tone | 18 | o lbs. | |
| Coal-remaining on h | | | 5 tone 114 " | 109 | 4 " | |
| N. | | | | / | | |

| P. M. 19 1.1/1 | | , | | | | | | |
|----------------|-----------|------------|----|----------------|-------|------------------|----|---|
| P.M. 1 EH. | M. by E. | South | 1 | 29.89 68 68 66 | 6.02. | cim. | 2 | S |
| | | balm | 0 | 29.88 69 69 67 | | , | | |
| 3 Flood | S. W. | O. W by M. | 21 | 29.88 70 70 68 | | * | | |
| 4 / | S. S. 77. | , | 1 | 29.87 717168 | | 7 | | |
| 5 4 | | West | , | 29.85-727269 | , | " | 7 | , |
| 6 4 | , | " | 1 | 29.84 73 71 68 | 4 | 2.4 | 7 | |
| 7, 1 | , | , | / | 29.83 7170 67 | " | Circum Strax. | 4 | , |
| 8 , | , | * | 1 | 29.82 706967 | " | , | 3 | * |
| 9 Stack Water | , | mmm. | 1 | 29.83 70 69 66 | b.cm. | Eum. | 3 | 7 |
| 10 Gbb. | S. W. | Calm | 0 | 29.83 69 68 66 | | 4 | | |
| 11 " | n.n.E. | " | 0 | 29.83 69 68 66 | | " | 13 | |
| Mid. | 11 by E. | 1 | 0 | 29.83 68 67 65 | " | " | 3 | - |

under the command of Commander J. F. Jewell, U. S. Navy, Saturday June 16th, 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Light airs from East. Stack water at 1. Commenced ewinging to flood at 1.45 fluished siving at 2:30. Clear hawse. Drift tide at end of match 0.6 set north. Distilling blearhawse, Distilling. Cloudy, hazy Ed pleasant. Light freeze from East. Maral Cadex 11. D.M. MISI toygatt From 8 am to Meridian: Overcast 1 st part, cleaning slightly afterwards Mazy Ed marm. Light airs to breeze from S. E. to E. S. E. Condy. Officer called on Kussian French Ed Japanese men-of war in the hartor Ed the U. D. D. Valor. I ransferred to 11.0.0. Palos, Pagmasters & Mavigation stores sent to her from Yokohama. Officer from Japanese Corvette called in place of his Comidg Officer. Ensign A. Rodman Strength of ebb at end of watch 0.8 knots. blear hawse. Distilling Al Toundstone. From Meridian to 4 P.M. blear Ed warm. Calms, Es light airs from Douth Es DNby. n. Light cir. cum! clouds. Hazy first hour. Received official visit from Coming. Officer of chinese man-of war. at 3.30 furled sail. Swang to flood at 3:00 Cross in hawse, port chair on top. Distilling csaring.

From 4 to 8 P. M. Maral Cadex U.B.M. Maral Cadex U.B.M. Generally clear, bright Ed pleasant, Light airs to breeze from West. Wet dew. falling last hour. Japanese Consul Ed Judge On Denly, Foreign adviser to Ming of Norea, called on board. N.y. M. S.S. Oward Morw came in . Riding to flood with close in house. Itraught of flood at end of match 1.6 Kuots Distilling Al familitione From & P. M to Meduight: Ousign U.D. M. Eavy dew. at 10.15 stopped distilling and Rauled fired in Caluv rest of watch, Heavy delv. at 10.15 stopped distilling to hance for Mos. 1263. Valery, mater on hand 3000 gallons. Dack mater at 9. Reduig to ell clear hance. Drift of tide 1-6 Knots; set A. by M. Maral Cade U. A. M. Examined and found to be correct. Len Galloway

LOG of the United States Steamer Essel 3d, Rate, Moured in the harbor of blemulps, Norea.

| | | | Reading | | WIND. | | | | BAROMETE | | | | | State of | Forms of | Hear oths. | ie Sea. |
|-----------|--------|---------|----------------------|--------------------------------------|-----------------------------------|--------|-------|---------|-------------------|------|-------------------|-------------------|----------------------|-----------------------------|--------------------------|--------------------------------|-----------------|
| Hour. | Knots. | Tenths. | of Patent Log. | COURSES STEERED by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | her. | Air, Dry Bulb. | Air, Wet Bulb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Cles Sky, in 10ths | State of the Se |
| A. M. | E | 16. | | A. J. E. | Calm | 0 | | | 29.82 6 | 68 | 67 | 65 | | 6.0.3. | Ción, | , | 1 |
| 2 | | | | N.E. by N. | " | 0 | | | 29.81 6 | | - | | | | " | | |
| 3 | Flo | 00 | | A.S. E. | East | 1 | | | 29.80 6 | 67 | 66 | 60 | | 0.02. | | | |
| 4 | | , | | S. by W. | , " | 1 | | | 29.80 6 | 67 | 66 | 60 | | " | | | 1 |
| 5 | | * | | , | Calm | 0 | | | 29.76 6 | 670 | 67 | 65 | | , | Ciscum Y Minib Cum | 0 | , |
| 6 | | 4 | | , | 5 11 | 0 | | | 29.766 | | | | | , | nul | 0 | |
| 7 | , | 1 | | Ø. J. W. | Gask | / | | | 29.76 | | | | | , | , | 0 | |
| 8 | | " | | D. by M. | P. A.M. | / | | | 29.75 | | | | | , | cis. | 0 | 1 |
| 9 | | " | | * | , | 1 | | | 29.720 | | | | | b.c.z. | Cum. | 5 | 4 |
| 10 | - | * | | | " | 1 | | | 29.727 | | | | | 1 | 1 | U | 1000 |
| 3 200 000 | - | Wal | to | n. E., | m'u | 1 | | | 29.70 | | | | | , | , | , | 1. |
| Noon. | 66 | 6. | | North. | Wess. | 2 | | | 29.68 | 76 | 70 | 68 | | , | " | 4 | - |

| Course and distance | made good since preceding noon by observation | ons, | knots. | | tenths. |
|----------------------|---|-------------------|--------|------|----------|
| | (Latitude by D. R. | | • | , | . 11 |
| | Longitude by D. R. | | 0 | , | " |
| Position at Noon: | Latitude by observations of ⊙ | | 0 | , | " |
| | Longitude by chronometer from Forenoon (| Observations of ⊙ | ۰ | , | " |
| | (Latitude by | | 0 | , | " |
| Position at 8 a. m. | Longitude by | | • | , | " |
| | (Latitude by | | • | , | " |
| Position at 8 P. M. | Longitude by | | • | , | " |
| Current during the | | setting to the | | | |
| | mpass by Amplitude o observed at Sunrise, si | hip's head | 0 | , | " |
| | mpass by Amplitude o observed at Sunset, | 44 | • | , | " |
| Variation of the Con | mpass by Azimuth O observed at | " | 0 | , | " |
| | mpass by Azimuth o observed at | " | • | , | " |
| | ring the preceding 24 hours, | | 3 | 50 | gallons. |
| | illed during the preceding 24 hours, | | 12 | 200 |) " |
| | hand fit for use at Noon, | | 21 | 100 |) " |
| Coal consumed durin | ng the preceding 24 hours, | | ton | 8 13 | 90 lbs. |
| Coal remaining on h | and at Noon, | | //3 " | 19 | 144 " |
| | | | | | |

| P. M. | | | | | | | |
|---------------|------------|-------|----------------|--------|--------------|---|----|
| 1 666. | North | mo.m. | 29.69 6970 68 | b.c/4. | Civil. | 3 | d. |
| 2 // | M by W. | | 29.69 69 69 67 | " | " | 3 | |
| 3 " | n.W. by n. | " | 2969 706866 | | " | | |
| 4 " | M. by O. | " | 29.69 70 68 66 | | " | | |
| 5 Flood. | S. 7. | West | 29.68 70 68 66 | " | Circulation. | 1 | * |
| 6 " | S. S. M. | , , | 29.68 69 68 66 | , | 0:0 | 1 | 7 |
| 7 7 | S. 7 64 D. | . " | 29.68 69 68 66 | | Cis Cum | 2 | 1 |
| 8 " | S.M. | 4 | 29.68 68 68 66 | 0.C.Z. | " | 0 | " |
| 9 7 | D. W by D. | A.W. | 29.67 67 67 65 | 6.c.z. | aum. | 0 | |
| 10 | tra: 11 | " | 29.6767676765 | | " | | |
| 10 Sack Water | West, | " | 29.67 67 67 65 | | " | | |
| Mid. Ebt. | North | " | 29.67676765 | " | " | 6 | 1 |

Examined and found to be correct.

Les Galloway ... News and Navigator.

LOG of the United States Steamer Essex"
Clienculpo, Norea June 18.

| Reading | | D. dies | WIND. | | | | | BAROME | AROMETER. TEMPERATURE. | | | State of | Forms of | lear ths. | e Sea. | | |
|---------|--------|---------|----------------------|---|-----------------------------------|--------|-------|---------|------------------------|--------------|-------------------|-------------------|----------------------|-----------------------------|---------------------|--------------------------------|-----------------|
| Hour. | Knots. | Tenths. | of Patent Log. | COURSES STEERED by Standard Compass. Ohips Head. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. att'd. | Air, Dry Balb. | Air, Wet Bulb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Clea Sky, in 10ths | State of the Se |
| A. M. | 8 | 66. | | A. n.n. | Calue | 0 | | | 29.67 | 67 | 66 | 60 | - | 6.0.3.71. | Cum. | 8 | S |
| 2 | | | | ") | 7 | 0 | | | 29.67 | | | | | " | Cis. | 7 | , |
| 3 | | | | North | , , | 0 | | | 29.67 | | | | | 7 | Cum | 7 | ; |
| 4 | | | | A. J. M. | Sr. by m. | 1 | | | 29.67 | | | 4000 | | " | " | 7 | , |
| 5 | Fu | ood. | 9:3 | D. M. | 11 11 C | 1 | | | 29.69 | | | | | b.cz. | | 7 | |
| 6 | | | | D. D. M. | St. St. E. | 1 | | | 39.69 | | | | | " | , | | |
| 7 | | - | 10000 | , | 10 | 1 | | | 29.69 | | | | | 1 | " | 7 | * |
| 8 | | | | 7 | A. W. | 1 | | | 29.69 | | | | | " | * | 7 | , |
| 9 | | - | | , | Calew | 0 | | | 29.69 | 69 | 68 | 65 | | " | - | 7 | 1 |
| 10 | | | | 2 00 1 1 | Wby A. | 0 | - | | 29.69 | | 1 | | | , | | 8 | |
| 11 | | | | A. M. by d. | , | 2 | | | 29.68 | | | | | , | " | 8 | |
| Noon. | | | | West | " | 2 | | | 29.6 | 770 | 69 | 60 | - | * | | 8 | |

| Course and distance | made good since preceding noon by observation | ns, | knots. | tenths. | |
|---------------------|---|-------------------|--------|----------|--|
| | (Latitude by D. R. | | 0 , | " | |
| | Longitude by D. R. | | 0 , | " | |
| Position at Noon: | Latitude by observations of ⊙ | | 0 , | " | |
| | Longitude by chronometer from Forenoon C | Observations of ⊙ | 0 | " | |
| | (Latitude by | | 0 | " | |
| Position at 8 a. m. | Longitude by | | 0 | , ,, | |
| | | | 0 | , ,, | |
| Position at 8 P. M. | 1 | | • | , ,, | |
| Current-during the | | setting to the | | | |
| Variation of the Co | mpass by Amplitude ⊙ observed at Sunrise, sh | nip's head | 0 | , ,, | |
| Variation of the Co | mpass by Amplitude ⊙ observed at Sunset, | " | 0 | , ,, | |
| | | 66 | • | , ,, | |
| Variation of the Co | mpass by Azimuth ⊙ observed at | « | 0 | , ,, | |
| | | | 300 | gallons. | |
| Water | Latitude by D. R. Longitude by D. R. Latitude by observations of ⊙ Longitude by chronometer from Forenoon Observations of ⊙ Latitude by Longitude by | | | " | |
| Water remaining on | hand fit for use at Noon, | | 240 | | |
| | | | tons | 400 lbs. | |
| | and at Noon. | | 113 " | 400 lbs. | |

| P. M. | | | | | | | | |
|---------------|-----------|----------|----|----------------|--------|------|----|----|
| 1 866. | n.n.m. | W. by A. | 2 | 29.65 69 70 66 | b.c.3. | Cir. | 8 | д, |
| 2 4 | * | , | 3 | 29.63 71 71 66 | | | | |
| 3 | N by W. | | 3 | 29,63 727167 | " | | 8 | |
| 1 Stack Water | ny byn. | , | 3 | 29.63 73 72 68 | , | , | 8 | 7 |
| 5 " | m. a. m. | Week | 3 | 29.64727166 | " | , | 6 | 4 |
| 6 Flood | A.M by d. | W.A.M. | 3 | 29.64727167 | " | | 6 | |
| 7 1 | , | " | 3 | 29.60717067 | " | | 6 | |
| 8 4 | d. d. m. | " | 3 | 24.60706960 | 1 | 3 | 6 | |
| 9 - 4 | " | A. A. M. | 2 | 29.65 69 68 60 | " | " | 9 | " |
| 10 | . " | " | 1 | 29.60-686765 | 4 | None | 10 | |
| 11 7 | | | , | 29.60-68 68 65 | 6.3 | | | |
| Mid. | | | 1 | 24.64.68 67.65 | | " | | |
| | | | 11 | | | 16 | | |

under the command of Commander J. F. Jewell Monday June 18 , U. S. Navy, , 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Commences Ed witel H a. m. light airs from n. by n. blear harose. Ebb. tide Cs. A. Scentin From 4 to 8 am. Lieux. U. A. M. slifting to n.n.E. black water at 4: vo. Reducy to flood; cross in howse, port chain on tops. Rect. on board 120 lbs. fresh buf, 120 lbs vegetables, 90 lbs. bread Colliary. From 8 a M to Meridian: Maval Cadel U. D.M. Clear, warm & fleasant, Calul first half; light airs from M by O. last half. At 9:30 beat to general quarters. All Divisions ready in 3 minutes 3.5 secure in 4 min. Ed 15 sec. Flood tide until end of match, when swang to ebb. Comag Officer of Freuch man- of mar aspic paid an official visit to the ship. U. D. & Valor came out from univer harbor Ed asked permission to anchor, answered, yes! . Half masted colors with other men- of war in the harbor on account of the death of the Emperor of Germany. Tested magazine and shell room flood cocks. To formina From Meridian to 4 P. M. Eusign U.D. M. Clear & pleasant. Hazy, Light & guthe brerze from W. by A. bross in have, fort chain on top. Plack mater at end of match. A. A. Lechtun From 4 to 8 P.M. Xuux. U. D. M. flood. Cross in have fort chair on top. Transfired Jos. F. Lund. (sea, with bag hammock Ed necessary papers to the U. O. A. Paloz. at sunsex, sent down t. g. yards and masts. Peut the following stores to the U. A. A. Palos: - 400 lbs Salt pork, 66 lbs pickles, 12 gal. molasses, 15 gals rilegar, 200 lbs hard bread, 2 bread bago. - 200 lbs tobaces, volbs. soap, 12 jack Kuives From 8 P. M. to Midnight: -Eusign U. J. M. Q.D. W. Stazy. Flood lide. Cross in hawe, port chain on top. Lieux U. D. M. Examined and found to be correct. E.S. Galloway and Navigator.

LOG of the United States Steamer Essel, 3d Rate, Moored in the harbor of Chewnelso, Noreal

| | | | Reading | | WIND. | | | | BAROMETER. | TEM | PERAT | URE. | State of | Forms of | lear ths. | e Sea. |
|-------|--------|---------|----------------------|---------------------|-----------------------------------|--------|------|---------|------------------------------|-------------------|-------------------|----------------------|-----------------------------|---------------------|--------------------------|--------------|
| Hour. | Knots. | Tenths. | of Patent Log. | by Standard Compass | Direction by Standard Compass. | Force. | Heel | Leeway. | Height in inches. Ther att'd | Air, Dry Bulb. | Air, Wet Bulb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of C Sky, in 10 | State of the |
| A. M. | 8 | 66. | | A. by M. | South | , | | | 29.6467 | 66 | 64 | | 6.0.37. | Strat | 8 | 6. |
| 2 | | | | Nr. by 6. | " | 1 | | | 29.6067 | 66 | 64 | | " | , | 8 | |
| 3 | | - | | | * | 1 | | | 29.6066 | 66 | 60 | - | + | * | 8 | . " |
| 4 | | | * | | 4 | 1 | | | 219.66 67 | 66 | 64 | | - | " | 8 | , |
| 5, | Flo | od. | | West | A. W. | 1 | - | | 29.67 66 | 66 | 64 | - | " | Cum. | 8 | " |
| 6 | | | | A. by M. | " | 1 | | | 29.6864 | 66 | 64 | - | buck. | Strat | 8 | 1. |
| 7 | | | | A. G. M. | | 1 | | | 29.6967 | 60 | 64 | | " | Cir. | 7 | 4 |
| 8 | | 4 | | | 1 | 1 | | 100 | 29.68 69 | 60 | 64 | | , | , | 7 | 4 |
| 9 | | , | | | | 1 | | | 29.67 67 | 60 | -64 | - | 0.0.6. | " | 0 | 4 |
| 10 | | | | | A. A. 7%. | 1 | | | 29.6767 | 66 | 64 | | 0.03. | , | 4 | |
| 11 | | | | D.M. by J. | " | 1 | 100 | | 29.6667 | 66 | 64 | 1 | 2 | 1 | 1 | |
| Noon. | | | | A. A. 71. | A. M. | 2 | 1838 | | 29.60-68 | 66 | 64 | 1 | | | 4 | , |

| Course and distance | made good since preceding noon by observation | ons, | knots. | tenths. | |
|---------------------|---|-------------------|--------|------------|--|
| | (Latitude by D. R. | | 0 | , ,, | |
| | Longitude by D. R. | | 0 | , " | |
| Position at Noon: | Latitude by observations of ⊙ | | 0 | , " | |
| | Longitude by chronometer from Forenoon | Observations of ⊙ | 0 | , " | |
| | (Latitude by | | • | , " | |
| Position at 8 a. m. | Longitude by | | 0 | , " | |
| | (Latitude by | | 0 | , ,, | |
| Position at 8 P. M. | Longitude by | | • | , ,, | |
| Current during the | | setting to the | | | |
| Variation of the Co | mpass by Amplitude o observed at Sunrise, s | hip's head | 0 | , " | |
| | mpass by Amplitude @ observed at Sunset, | " | 0 | , " | |
| Variation of the Co | mpass by Azimuth ⊙ observed at | " | - | , " | |
| Variation of the Co | mpass by Azimuth ⊙ observed at | u | | , " | |
| | ring the preceding 24 hours, | | 30 | o gallons. | |
| Water | during the preceding 24 hours, | | | " | |
| Water remaining on | hand fit for use at Noon, | | 21 | 400 " | |
| Coal consumed duri | ng the preceding 24 hours, | | tons | Hoolbs. | |
| Coal remaining on h | | | 113 " | 1144 " | |
| | | | | | |

| P. M. | | | | | | | , |
|---------------|------------|--------|----------------|----------|--------------|---|---|
| 1 Clack Water | m. o. m. | A. W. | 29.65 68 65 64 | b.o.f. | air cum. | 4 | 5 |
| 2 666. | North | , | 29.65 70 68 65 | 6.0.3. | " | 4 | |
| 3 , | , | , | 29.63 71 69 66 | , | Circuns Nimb | 4 | |
| 4 . | | mo.m. | 29.63 71 70 67 | ", | | | " |
| 5 . | n.n.m. | " | 29.627171 68 | " | Ein. | | |
| 6 Flood. | A.W. by A. | | 29.61 71 70 67 | | " | 6 | 2 |
| 7 1 | D. D. Br. | | 29.62-71 69 66 | | " | 7 | |
| 8 | | | 29.62706966 | | " | 8 | |
| 9 9 | * | | 2962707067 | , | , | 8 | 3 |
| 10 // | " | - | 29.6268 69 67 | " | | 8 | " |
| 11 , | 1 | A.A.M. | 29.62666764 | b.c.f.n. | " | | |
| Mid. | | " | 29.60666666 | - | | 2 | |
| | | ! | | | | | |

under the command of Commander J. F. Jewell June 19 , U. S. Navy, RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. from South blear house.

Sight haze is dew fall. Light airs

from I to 8 a.m.

Sear Is pleasant. Toggy overland. Light airs

from I.W. ax 6:00 swang to flood tide. brows in howse, port chair on

top. bleaved bilges. Reel in Pay. Dept.; for issue to crew, 95 lbs fresh broad. From 8 am to Midnight. Evinge U. A.M. Bewerally cloudy. First hour foggethen hazy. Light airs from D. J. W Ed A. W. Flood tide. at 9:30 unspected at quarters. Operand 1st Ed 2nd Divisions at great ques, and sivision, suight sticks, Fowder sivision Itations: at 10:00 exercised the companies of the battalion at Sufactry ad Urtillery. Sent small arms target ashore on Rose Is. Elbow in hawse, fort Chainton top. CS. P. Clemin From Meridian to 4 P.M. Lieis U. O. N. Partly clear, hazy, with occasional passing cloud banks. Light breize from A. W to WB. W. Dent 1st division ashore for target practice with rifler. Of 3:10 Palos" made signal interrogatory 4890 alaward with cornex. Palor answered Ed was getting under way a fend of watch Began scraping spars. Clear hawse Eusign U. D. n. From 4 to 8 a.m. Eusign U B.M.
Swung to flood. bleared hawse. at 4,45 Palos got under may 30 steamed out of the harbor; at sundown sent down topich yards Ed mais cs. f. Echutu From 8 P. m to Midnight: Xund U. O. M. Generally clear, with light cir, cum. clouds first to grant Heavy med fog afterwards. Light airs to breeze from W. B. W. to B. B. Tr. at. 8:55 lauded a force of 18 ment of marines with marine officers Europe Hoggath Eddieid. Galloway all under arms to proceed to Devul. Riding to flood, at 100'c, strugth of flood 1.0 Knot blear hands. Alfametstone. Gusign UBN Examined and found to be correct. Ly vient Frehteler; during my absence in Brown! Korea Salgoway Luis & Navigator.

| | | | | WIND. | | | | BAROME | TER. | TEMP | ERATU | | | lear ths. | sea. |
|-------|-------------------|---------------------------------|--------------------------------------|-----------------------------------|--------|-------|---------|-------------------|--------------|-------------------|-------------------|-----------------------------------|------------------------------------|---------------------------|--------------|
| Hour, | Knots. Tenths. | Reading of Patent Log. | COURSES STEERED by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. att'd. | Air, Dry Bulb. | Air, Wet Bulb. | State of the Weather, by symbols. | Forms of Clouds, by symbols. | Prop. of C Sky, in 10t | State of the |
| A. M. | Flood | | d. by M. | A. by M. | 2 | | | 29.58 | 65 | 66 | 63 | 6.0,4. | Oune | 2 | 0. |
| 2 | Est. | | A. E. by D. | Colw | 0 | | | 29.58 | 60 | 66 | 63 | | | 7 | |
| 3 | 4 | | Mby E. | 4 | 0 | | | 29.59 | 67 | 66 | 64 | b.c.lw | | 6 | ; |
| 4 | 4 | | n.h.E. | A.E. | 1 | | | 29.61 | 67 | 65 | 64 | " | cum r new, | 5 | |
| 5 | | | , | | 7 | | | 29.61 | 67 | 66 | 64 | " | | 3 | |
| 6 | | | n & by 6. | , | 3 | | | 29.60 | | | | b.c.to | " | 2 | , |
| | Flood. | | J. by 8. | 1 | 2 | | | 29.09 | | | | " | " | 1 | 4 |
| 8 | , | | 1 | 4 | 3 | | | 29.09 | | | | 0,0, | num. | 0 | , |
| 9 | , | | Douth | " | 2 | | | 29.58 | | | | o.em | | 0 | 4 |
| 10 | | | A.A.M. | d. W. | 2 | | | 29.5 | | A TON | | , | 1 - | 0 | , |
| 11 | | | | " | 2 | | | 29.57 | | | | , | " | 8 | 4 |
| Noon. | | | | | 3 | | | 29.56 | | | | | , | 0 | 11 |
| | | | | | | | | | | | | | | | |

| Course and distance | made good since preceding noon by observa | utions, | knots. | tenth |
|---------------------|---|---------------------|----------|------------|
| | (Latitude by D. R. | | • , | |
| | Longitude by D. R. | | . , | " |
| Position at Noon: | Latitude by observations of ⊙ | | . , | " |
| | Longitude by chronometer from Forence | n Observations of ③ | ٠, | " |
| | (Latitude by | | . , | " |
| Position at 8 a. m. | Longitude by | | 0 , | " |
| | (Latitude by | | 0 / | " |
| Position at 8 P. M. | (Longitude by | | • , | " |
| Current during the | time, knots tenths per hou | ar, setting to the | | |
| Variation of the Co | mpass by Amplitude @ observed at Sunrise | , ship's head | • , | " |
| Variation of the Co | mpass by Amplitude O observed at Sunset, | " | . , | " |
| Variation of the Co | mpass by Azimuth O observed at | " | • , | " |
| Variation of the Co | mpass by Azimuth O observed at | 4 | . , | " |
| Water expended du | ring the preceding 24 hours, | | 35 | O gallons. |
| Water | during the preceding 24 hours | , | | u |
| Water remaining on | hand fit for use at Noon, | | 170 | 0 " |
| Coal consumed duri | ng the preceding 24 hours, | | 170 tons | 400 lbs. |
| Coal remaining on l | hand at Noon, | | 113 " 7 | 144 " |
| | | | | |

| P.M. Flood. | d.d.m | A.M. | 2 | 29,54676564 | 002 | Cum | 10 | 0 |
|-------------|------------|----------|------|----------------|------------|------|----|---|
| 2 266. | O.M. by M. | , | 2 | 29.5468 66 65 | 0,0,2° | cum. | 6 | , |
| 3 | North | " | 3 | 29.5469 67 65 | 1" | | | |
| 4 " | | 0" 1 | 3 | 29,53 69 67 60 | , | | | |
| 5 " | N by m | W. 8.71 | 7. 2 | 29.53686765 | " | , | | |
| 6 " | nnn | " | 2 | 29.55 69 67 65 | b.ef. | " | 2 | |
| 7 Frost. | D. by 6. | 9.9. m. | 2 | 29.07 68 66 64 | " | " | 7 | 1 |
| 8 " | D. by W. | S. S. M. | 2 | 29.59 67 6664 | " | | | |
| 9 / | 1"1" | " | | 29.60 68 67 65 | bs.2,20 | Cum. | 8 | " |
| 10 " | D. D. M. | " | 1 | 29.60686866 | , | 11 | 9 | 1 |
| 11 / | " | Q. 71. | 1 | 29.62686865 | , | , | 9 | |
| Mid. 7 | " | X. 71. | 3-4 | 29.62676764 | G.o.g. 37. | | / | - |

, U. S. Navy, under the command of Commander J. F. Jewell Wednesday June 20 RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Commences Et until Ha.M. to the Mid. Light breezes from D. by M. first hours. Calm next two hourd. Light ain from J. E. last hours. Ell. tide bleas hawse. From D. E., ax 7:00 swweg to flood. ax 7:45 sent up togall masto Ed crossed to fight yardo blear hause. Naval Cade U. D. M. From 8 am to Mendian! - Lieux. U.D. M. Overcast with cum. Es new Clouds. Misty; well last hour. Light to gentle breaze from o. E. to D. W. Ridnig to flood tide; Went to quarter Dounded assembly for battalion at 10 o'c Ed dilled companies at Infantry as 11:00 peut down m. t.g. yard and househ m, tget mast to clear tak builline then fidded it, and crossed yard. Throught of tide at 11:00, 1.6 Knots. Clear howse. From Meridian to 4 P.M., Ensign U.S.N. Overcast Et Cloudy & meity first hour. Fair and pleasant remainder of watch. Hazy around horizon. Right to gentle brenzes from D.W. Slack water between 1. Et v. Riding to elf at end of watch. at I send y'm division ashore for target practices with rifles. bross in howse otto. Chamon lop. Maral Cade MIDA From 4 to 8 P. m. Partly clear with circum, clouds. Hazy 1st breeze from Mr. M to D.D.M. Riding to Est till 6:00. Greaters, strength 0.7 Knots. Black Water at 6 6'C. During to flood at 6:30 sent down J. 9. yards Ed maets at sunseed at end of watch, strongth of flood I thiod blear hause. From 8 P.M to Midnight Ousign U. O. M. Bright moonlight. Light airs to light breezes from D. D. W. first three how freshering to moderate breszes from O.D. W. last hour. Riding to flood. Drift at 9:001.2 Knots; at midnight, 2 / Tuoto blear hawse Maral Cadex U. B.M. Examined and found to be correct. Les lat. Let Lalloway

LOG of the United States Sleancer Essex , 3 Rate, Moored in the harbor of Chemillo, Korea.

| | | | Reading | | WIND. | | | | BAROMET | TER. | TEMP | ERAT | URE. | State of | Forms of | Clear Oths. | se Sea. |
|-------|--------|---------|----------------------|-----------------------------------|-----------------------------------|--------|-------|---------|-------------------|-----------------|-------------------|-------------------|----------------------|-----------------------------|---------------------|-------------------------------|-----------------|
| Ношт. | Knots. | Tenths. | of Patent Log. | by Standard Compass. Phips Head. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. att'd. | Air, Dry Bulb. | Air, Wet Bulb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Cles Sky, in 10th | State of the Se |
| A. M. | Flo | od. | | 9.9 m. | 9. m. | 2 | | | 29.62 | 66 | 67 | 65 | | b.c. 71. | ari cum. | 7 | g, |
| 2 | | 4 | | " | - *4 | 2 | | | 29.62 | 66 | 67 | 65 | | " | | 7 | |
| 30 | Deach | wal | T. | | | 1 | | | 29.60 | 67 | 66 | 64 | | 8 " | " | 8 | ", |
| 4 | 8 | 66. | | n. by E. | West | 1 | | | 29.60 | 67 | 66 | 64 | 4 | " | , | 8 | , |
| 5 | | | | , | | 1 | | | 29.62 | 67 | 60 | 64 | | b.c. 3 | " | 8 | |
| 6 | | , | | m.n.E. | East | 1 | | | 29.64 | | | | | " | | 8 | |
| 7 | | | | , | , | 1 | | | 29.66 | | | | | " | | 8 | 4 |
| 8 | Fe | ood | | n.E. | , | 2 | | | 29.67 | | | | | " | " | 8 | |
| 9 | | 4 | | I. by m. | I. m. | 1 | | | 29.68 | | | | | , . | , | 7 | " |
| 10 | | " | | " | , | 1 | | | 29.68 | | | | | | 1 | 7 | |
| 11 | | " | Militar | | " | 2 | | | 2968 | | | | | - 4 | " | 7 | , |
| Noon. | | 4 | | 9. 9. W. | , | 2 | | | 29.68 | | | | | | , | 6 | |
| | 1 | | | | | | | | | | | | | | | 14 | |

| Course and distance | made good since preceding noon by observation | ons, | | knots. | | tenths. | | |
|---------------------|---|-------------------|---|--------|-----|----------|---|--|
| | (Latitude by D. R. | | | 0 | , | " | | |
| | Longitude by D. R. | | | • | , | " | | |
| Position at Noon: | Latitude by observations of ⊙ | , | | 0 | , | " | | |
| | Longitude by chronometer from Forenoon | Observations of ⊙ | | 0 | , | " | | |
| | (Latitude by | | | 0 | , | " | | |
| Position at 8 a. m. | Longitude by | | | • | , | " | | |
| | (Latitude by | 1 | | 0 | , | " . | | |
| Position at 8 P. M. | Longitude by | | | • | , | " | | |
| Current during the | time, knots tenths per hour, | setting to the | | | | | | |
| Variation of the Co | ompass by Amplitude o observed at Sunrise, s | hip's head | | 0 | , | " | | |
| Variation of the Co | ompass by Amplitude o observed at Sunset, | u· | | 0 | , | " | | |
| Variation of the Co | mpass by Azimuth ⊙ observed at | u | | 0 | , | " | | |
| Variation of the Co | mpass by Azimuth o observed at | ш | | • | , | " | | |
| Water expended du | ring the preceding 24 hours, | | | 30 | 0 | gallons. | | |
| Water | during the preceding 24 hours, | | | | | " | | |
| Water remaining or | hand fit for use at Noon, | | | 140 | 0. | " | | |
| Coal consumed duri | ng the preceding 24 hours, | | 1 | tons | 3 1 | 400 lbs. | | |
| Coal remaining on l | hand at Noon, | | | 113 " | 5 | 44 " | 1 | |
| | | | | | | | | |

| P. M. | | | 1-13 | | 1 | | | |
|-----------|----------|----------|------|-------------|------|------|---|---|
| 1 Flood | D. D. W | m. A. m. | 2 | 29.68 72 71 | b.e. | Cir. | 9 | 9 |
| 2 | A by m | " | 12 | 29.68 72 72 | " | * | 9 | |
| 3 Sacrin. | 0. W. | , | 3 | 29.67 73 72 | * | | 9 | 7 |
| 4 866. | n by m. | " | 3 | 29.67 73 72 | , | | 9 | - |
| 5 " | " | " | 3 | 29.6973 72 | , | " | 9 | , |
| 6 , | , | nest | 3 | 29,69 74 72 | , | " | 8 | 4 |
| 7 " | n,n,m. | 1 | 3 | 29,717471 | " | 4 | 7 | 4 |
| 8 , | m.n.m. | , | 2 | 29.71 73 70 | " | " | 9 | , |
| 9 Glood. | A.A.W. | " | 1 | 29.727171 | , | " | 9 | |
| 10 " | D. by M. | * | , | 29,73 70 70 | , | , | 9 | |
| 11 " | , | Calm | 0 | 29.73 69 69 | | , | 8 | |
| Mid. | , | ,, | 0 | 29.74 69 68 | " | " | 8 | |
| | | | 11 | | | | | |

under the command of Commander J. J. Jewell June 21 , U. S. Navy, , 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences & until 4 a.m. from D. W. W mest. Owning to ebt tide at 2:15, bross in hause Fronv 4 to 8 a.m. Gusign U. A. M. Generally clear, hazy. Wex heavy deed blonds Oir our. Light airs to bresze from East, Seit o Knapsacks ashow to be forwarded to armed force in Seoul. Received in Pay Dept. and resurd to orew, 88 3/4 black of fresh buf Ed reg-etables Ed Il lbs fresh bread. Crossed J. G. Yards Ed loosed sail to a bowline ax 8 oc, Riding to ell, cross in howe. Greatest strongthe 1.3 Knots. I woning to flord at end of watch Manustone. From 8 to Meridian Eusign U.D. M. Charge Light airs to light breeze from D. M. When, pleasant & hazy. Light airs to light breeze from D. W. at 8.45 Cleaning hourse. at 9.30 mustered at quarters & exercised divisions as follows: 12, 3. May. & Euges, Rifles, 2nd division single sticks. at 10 shortened vail, Ed exercised at vail drill mutil 11 Ridius to thood Soils at each of watch 16 Munts 11. Riding to flood. Drift at end of watch 1.6 Theoto From Meridian to 40.m. Maral Carx 1.0.M. Clear warm Et pleasant. Light increasing to guitte breeze from n. D. W. Dent Mavigatoris Ed 30 sivisions, ashore for larget practice. Dlack water as 2: 45. Finished swonging to ebb tide at end of natch. Oross in hawse. Its. Chair on top. From 4 to 8 P.M. Eusign U.D.M. Eisight U.D.M. West. Light cir. cum. clouds. At sunsex 7:25, sent down topgalland yards. Eels tide. Drift at 6100 1.2 Knots Plack water at 8. Cross in hower, Starboard chain on top.

Naval Cade U.D. n. AX 8; 15 Swang to flood belear house

J' formes Eusign U.O.M.

Examined and found to be correct. Sec 19th.

Co Calloway

LOG of the United States Steamer Essex, 3d Rate, Moored we the harbor of Chewulpo Korea

| | | | Reading | | WIND. | - | | | BAROMETER. | TEM | IPERA | TURE. | State of | Forms of | Hear other. | le Sea. |
|-------|--------|---------|----------------|--------------------------------------|-----------------------------------|--------|-------|---------|------------------------------|-------------------|-------------------|----------------------|-----------------------------|------------------------|--------------------------------|------------------|
| Hour. | Knots. | Tenths. | of Patent Log. | COURSES STEERED by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. Ther att'd | Air, Dry Balb. | Air, Wet Bulb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Clea Sky, in 10ths | State of the Sea |
| A. M. | Je. | ood. | | J. by W. | Caew. | 0 | | | 29,74 64 | 6 | 766 | | 6.03. | lis. | 8 | 9. |
| 2 | , | - | | " | S. m. | 0 | | | 29.7368 | | | | , | * | 8 | 1 |
| 3 | | 4 | | " | , , | , | | | 29.7368 | _ / | | | " | , | 8 | 1 |
| | 8 | 88. | | Mont | Caem: | 0 | | | 2976 61 | 67 | 60 | | 6.0.2,00 | " | 7 | " |
| 6 | | | | n.n.E. | n.E. | 1 | | | 29.78 68 | | | | b. c.z. | 1 | 2 | , |
| 8 | | 4 | | n. by E. | Caem. | 0 | | | 29.80 71 | | | | 1 | , | 7 | |
| | Fl | ood. | | D. by E. Douth | A. by E. | 1 | | | 29.8172 | | | | , | 7 | 8 | , |
| 10 | , | | | douth | , | 1 | | | 29,8273 | | | | 1 | , | 8 | |
| Noon. | . , | | | A. by W. | , | , | | | 29,81 74 | | | | , | " | 7 | |
| | | | | | | | | | | 1 | | | | | | |

| Course and distance | e made good since preceding noon by observations, | knots. tenths. |
|---------------------|--|----------------|
| | (Latitude by D. R. | 0 , ,, |
| | Longitude by D. R. | , " |
| Position at Noon: | Latitude by observations of ⊙ | 0 , " |
| | Longitude by chronometer from Forenoon Observations of ⊙ | 0 / // |
| | (Latitude by | 0 , ", |
| Position at 8 a. m. | Longitude by | 0 , , |
| | (Latitude by | 0 , " " |
| Position at 8 P. M. | Longitude by | 0 / // |
| Current during the | time, knots tenths per hour, setting to the | |
| Variation of the Co | ompass by Amplitude ⊙ observed at Sunrise, ship's head | 0 / // |
| Variation of the Co | ompass by Amplitude ⊙ observed at Sunset, " | 0 , , |
| Variation of the Co | ompass by Azimuth ⊙ observed at " | · / // |
| Variation of the Co | ompass by Azimuth ⊙ observed at " | • , ,, |
| Water expended du | ring the preceding 24 hours, | 300 gallons. |
| Water | during the preceding 24 hours, | " |
| Water remaining o | n hand fit for use at Noon, | 1050 " |
| Coal consumed dur | ing the preceding 24 hours, | tons 760 lbs. |
| Coal remaining one | hand at Noon, | 112 " 1824 " |
| | | |

| P.M. Flood. | 9. 9. m. | 9. by E. | , | 29.80 74 73 69 | 6,03. | Cir. | 8 | g. |
|-------------|----------|----------|----|----------------|-------|------|----|----|
| 2 4 | , | , | 1 | 29.79 73 72 68 | " | , | 80 | " |
| 3 4 | , | , | 2 | 29.78737268 | | , | 8 | 2 |
| 3 8eb. | West, | W.nW. | 2 | 29.78737268 | | . 1 | 8 | , |
| 5 4 | North | West | 2 | 29787271 68 | , | , | 7 | |
| 6 4 | 11 by 6. | (1) | 2 | 29.78 72 71 68 | " | | 7 | |
| 7 / | n.n.E. | 9. W. | 1 | 29.78727268 | , | 7 | | |
| 8 4 | n by 6 | " | 1 | 29.797271 68 | , | | 8 | 4 |
| 9 Flood. | 8.6 | , | 2 | 29.821071 68 | , | , | 8 | |
| 10 | A.S.M. | 9.9.W. | 1 | 298269 70 68 | 2 | 1 | 8 | |
| 11 4 | " | 4 | 1 | 29.8270 70 68 | , | , | 8 | |
| Mid. | , | , | 1 | 29.8270 70 68 | | " | 4 | ^ |
| | | | 11 | | 1 | | 1 | |

under the command of Commander J. J. Jewell Friday June 22 , U. S. Navy, , 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Commences Ed until H W.M. lazy. Calm first half, then light D.M. airs. Flood tide. Clear hawse Lieux. U. D. M From H to 8 a.m. from M. E. ax 7.30 crossed topogallaux yards. I lack water from 4 to v, and sweeg to ebb, loross in howe Darbi chain on top Collinia.
Naval badex UPM. Trom 8 a.m. to Meridian blear, warm It pleasant. Light airs from D. by E. Det suight sticks, Ed 3° Dw. machine guns, Ed Powder Div. Etations. Cleared Trom Meridian to 4 P.M. Curign U.O. Ousign U.D. M. Clear & pleasant. First three hours light airs from D. by E. last hour light breaze from M.M. Deux Eugeniers En Powder Divs.

ashore for largex practice. ax 4:00 slack water, beginning to swing to ebb. Otrugth of

current ax 1:00 2.2 Knoto. Clear howse. Albert Hausen (205) reported his term of

enlistment as having expired.

Trom 4 to 8 P.M.

Clear Ed pleasant. Hazy overland, Light breeze from

Mext Link Local Shifting Ed decreasing to light ping from Any last half ax bout one West first half, shifting Es decreasing to light airs from D. W last half. at 6.45 went to fire quarters; all blivisions ready in one () minute, secure in one Ed a half minutes. Reding to ebb tide. Elbow in howse stor. Chain on top. Towder "to Marigators Divisions returned from target practice on shore Queign U.D. M. From 8 P. M to Midinghis:-Bright moonlight first hour light breeze from D. M. then light airs from D.D. W. at 9:00 sweet to flood. Elbow in hawse, starbs. chair on Tops. Dredth of current at midnight 1,6 Knots. cs. & Lectutu Lieux. U. O.M.

Examined and found to be correct. an 192.

Lieux & Navigator.

| | | | Reading | | WIND. | 0 | | | BAROME | TER. | TEME | PERAT | URE. | State of | Forms of | Clear Oths. | he Sea. |
|-------|--------|---------|----------------------|---|-----------------------------------|--------|-------|---------|-------------------|--------------|-------------------|-------------------|----------------------|-----------------------------|--|---------------------------------|------------------|
| Hour. | Knots. | Tenths. | of Patent Log. | COURSES STEERED by Standard Compass. Olips Head. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. att'd. | Air, Dry Bulb. | Air, Wet Bulb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Clear Sky, in 10ths | State of the Sea |
| A. M. | | 00. | | D.D.M. | Wesk | 21 | | | 29.86 | 69 | 69 | 67 | | b.c. | Cum. | 5 | 0. |
| 2 | | 4 | | | 0.0.m | 2 | | | 29.84 | 69 | 69 | 67 | , | " | 7 | 2 | , |
| 3 | - | | | Douth | 4 | 1 | | | 29.80 | 19 | 68 | 66 | | 1 | 1 | 3 | , |
| 4 | | | | A. by W. | Calm | 0 | | | 29.87 | 70 | 68 | 6% | 7 | b.cdl. | " | , | |
| | 80 | 6. | | n. 8. by & | n. E. | 1 | | | 29.80 | - 69 | 69 | 67 | | 0.0,1. | | 0 | 0 |
| 6 | | " | | North | Doutle | 2 | | | 29.83 | 69 | 68 | 67 | | 7 | , | 0 | |
| 7 | | | | 2008. | | 3 | | | 29.82 | 69 | 68 | 66 | | 0.0.gr. | " | 4 | " |
| 7 8 | | . ' | | , | | 3 | | | 29.84 | 169 | 68 | 66 | | " | The state of the s | 0 | |
| 9 | | | | n 6 by &. | , | 3 | | | 29.82 | 68 | 68 | 66 | | " | 2 | 0 | + |
| 10 | Fee | od | | 0.0.8 | 0.0.8. | 3 | | | 29.81 | 68 | 68 | 66 | | 0.0.9. | " | 0 | , |
| 11 | | | | A. by M. | Douth | 3 | | | 29.80 | 20 | 69 | 6% | 7 | b.c. 2. | Cum | 1 | |
| Noon. | | * | | A. A. W. | , | 3 | | | 29.80 | 70 | 69 | 67 | 7 | B.C. 2. | Cum. | 4 | |
| | | | | | | | | | | | - | | | | | | 1 |

| Course and distance ma | de good since preceding noon by observation | ons, | knots. | tenths. |
|------------------------|---|-------------------|--------|------------------|
| (1 | Latitude by D. R. | | 0 / | " |
| 1 | Longitude by D. R. | | • | " |
| Position at Noon: | Latitude by observations of ⊙ | | 0 | , , , |
| | Longitude by chronometer from Forenoon | Observations of ⊙ | • | , ,, |
| (1 | atitude by | | 0 | , ,, |
| Position at 8 a. m. | ongitude by | | • | , " |
| | atitude by | | 0 | , " |
| Position at 8 P. M. | ongitude by | | • | , , ,, |
| Current during the tim | | setting to the | | |
| | ass by Amplitude o observed at Sunrise, | | • | , " |
| | ass by Amplitude O observed at Sunset, | " | • | , ,,, |
| | ass by Azimuth ⊙ observed at | " | 0 | , ,, |
| | | " | 0 | , , |
| | ass by Azimuth ⊙ observed at | | 33 | |
| | g the preceding 24 hours, | | 30 | gations. |
| Water | during the preceding 24 hours, | | 2 | |
| | and fit for use at Noon, | | / |) 0 " |
| Coal consumed during | the preceding 24 hours, | | tons | 1120 lbs. July " |
| Coal remaining on han | d at Noon, | | 112 " | 7114 " |
| | | | | |

| P. M. | | | | | | | | |
|------------|------------|--------|-----|----------------|-------|---------|-----|----|
| P.M. Flood | D. O. W. | South | 2 | 29.757271 68 | 60.2 | Cir. | 3 | 9 |
| 2 / | , | mn.m. | .2 | 29.75737269 | , | " | V | " |
| 3 | | " | 2 | 29.78737168 | , | Cir Cim | - 1 | " |
| 4 1 | , | , | 2-3 | 29,76 72 70 68 | " | | , | " |
| 5 " | D. Wby. W. | Wes.M. | | 29,75-71 70 67 | | Cir. | 0 | , |
| 666b | north | * | | 29.757271 68 | 4 | " | | |
| 7 " | n.E. | Douth | | 2978727068 | " | 1 | | |
| 8 " | " | mess | | 219.80717068 | , | 7 | 6 | * |
| 9 " | 71.71.8. | n.m. | | 29.81 70 70 68 | 4 | , | 7 | " |
| 10 / | n.E. | Calm | | 29.83 70 69 67 | 60.m. | , | 5 | 11 |
| 11 , " | D. by m. | East | | 29,83 20 69 67 | " | , | 3 | |
| Mid. Flood | . , , | Calm. | | 29.85706969 | " | | 3 | , |
| | | | 1-1 | | 1 | | | |

Commences Ed until 4 a.M. Generally cloudy. Overcast at times. Clouds cum and nineb. Druggling last hour, with lighting to the med. Light airs to breeze from West to D.D.W. till last hour, when calm. Elbow in house, Riving to flood. I mated strength From H to 8 A. M. Eusign U. B. M. Eusign U. B. M. Overcast, cloudy & raing. Light airs from M.E. frist Gusign U. D. M. Low, shifting Ed increasing to gruthe breeze from Douth. Squally last haef.
Recd. in Pay Dept. for issue to crew 883/4 lbs. each of fresh beef Ed orgs. Es 71 lbs. bread. at
5:15 pering to ebt. Olbow in chain, starbo chain on top at 8.00 started fires in boilers 1843 for condensing. From 8 a.m. to Meridian Ensign U.A.M. Stondy Ed nawy first half of watch with wind equally from Douth Ed D. D. & Last half of match cloudy, cleaning toward end. at 10. finished swinging to flood, bleared hower. at 8.00 started fires in boilers 1863 for distilling. Raw water into tanks at 11.00 into tanks at 11.00 From Meridian to 4 P. M. Lieut. U. D. M. Generally cloudy, Clouds cir. cum. Ed nim. Hazy. Light breeze from bouth first hour shifting to M.M. W. mcreasing to quite bresze. I wo Chinese cruisers, the Ohi- Guew & Yang Win came in. Dent an officer to extend unal courtesies. at ric started to unmoor Food up port auchor and hove in to wfris. on Atd. chain. an officer from Chinese senior Distelling. Phellaced awning stanchions, poop rail, Ed steerage country deck. Trom H to 8 P. M. Eusign U. D.M. Eusign U. D.M. Eusign U. D.M. Fair & pleasant. Light airs to gruth breezed from MD.M. & Pouth. at 4.20 began ewinging to ebb, finished at 5.30. at 6.30 nored to 90 fms on other chain. & let go fort anchor down stream, mooring with 45 fms. on each chain blear hawn.

From 8 P. M to Midnight.

Partly clear Hazy first hour. Wet heavy dew. Bright moonlight. Calmo Ed light variable airs, Riding to leb tide till 10.30. Invated strength 1.4 Knots. Stack water at 10 oc. Dwing to flood at 10.30. Dheugth of flood at lud of watch 1.6 Knots. Ellow in haww.

He Voum stone. Ensign U.D.M.

Examined and found to be correct. See 19 inch

Let Galgoway Red Navigator.

LOG of the United States Steamer Essel", 3d Rate, Moored in the harbor of Chemnelso, Korea,

| | | | * | Reading | | WIND. | | | | BAROME | | | | | State of | Forms of | Clear oths. | he Sea. |
|----|-------|--------|---------|----------------------|-----------------------------------|-----------------------------------|--------|-------|---------|-------------------|--------------|-------------------|-------------------|----------------------|-----------------------------|---------------------|----------------------------------|------------------|
| | Hour. | Knots. | Tenths. | of Patent Log. | by Standard Compass. Ohips Head. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. att'd. | Air, Dry Balb. | Air, Wet Bulb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Clear Sky, in 10ths. | State of the Sea |
| A. | M. | Fee | od. | | A. D. W. | Calm | 0 | | | 29.82 | - 69 | 69 | 67 | | b. c.z.n. | Cim | 4 | 9, |
| | 2 | | " | | " | p.m. | 1 | | | 29.80 | 69 | 69 | 67 | | | | 2 | |
| | 3 | | | | ^ | 8. 8. 8. | 2 | | 100 | 29.80 | 69 | 68 | 66 | | 0,0,3. | x nines. | 0 | " |
| | 4 | | 4 | | D. by m. | , | 2 | | | 29.79 | 169 | 68 | 66 | | 6.0 | 1 | 1 | " |
| | 5 | | + | | " | ^ | 1 | | | 29. 81 | 69 | 68 | 66 | - | " | | 1 | |
| | 6 | 8 | 16. | | n.E. by E. | South | 1 | | | 29.84 | 69 | 68 | 66 | | " | " | 1 | 1 |
| | 7 | 1 | , | | N.E. by E. M by E. | A.E. | 1 | | | 2981 | -69 | 68 | 66 | | o,cd. | 1 | 0 | |
| | 8 | | " | | / | East. | 2 | | | 2985 | 69 | 68 | 66 | | 00 | 1 | 0 | " |
| | 9 | | | | n. E. by n. | 6.0.8. | 2 | | | 29,85 | 69 | 68 | 66 | | 003. | " | 0 | |
| | 10 | | | | no. | " | 2 | | | 29.86 | | | | | " | 1 | 0 | |
| - | - | \$ | ood. | | 0.8. | " | 2 | | | 39.80 | | | | | 6.0.3. | na Centre | 2 | " |
| | oon. | - | " | | Douth, | 0.8, | 2 | | | 29.80 | | 4- | | | , | " | 1 | ,, |
| L | | | | | | | | | | | | | } | 1 | | | | |

| Course and distance | made good since preceding noon by observation | ns. | knots. | | tenths. | | |
|---------------------|---|-------------------|--------|------|---------|--|--|
| Course and distance | | | | , | ,, , | | |
| | Latitude by D. R. | | | | | | |
| | Longitude by D. R. | | • | , | " | | |
| Position at Noon: | Latitude by observations of ⊙ | | • | , | " | | |
| | Longitude by chronometer from Forenoon C | Observations of ⊙ | 0 | , | " | | |
| | (Latitude by | | 0 | , | 11. | | |
| Position at 8 a. m. | Longitude by | | 0 | , | " | | |
| | (Latitude by | | • | , | " | | |
| Position at 8 P. M. | Longitude by | | • | , | " | | |
| Current during the | | setting to the | | | | | |
| | mpass by Amplitude ⊙ observed at Sunrise, sh | nip's head | 0 | , | " | | |
| | mpass by Amplitude O observed at Sunset, | " | 0 | , | " | | |
| Variation of the Co | mpass by Azimuth ⊙ observed at | " | • | , | " | | |
| | mpass by Azimuth ⊙ observed at | " | • | , | " | | |
| | ring the preceding 24 hours, | | 30 | 50 | gallons | | |
| Water Dist | 1.00 | | 14 | 50 | " | | |
| | hand fit for use at Noon, | | 180 | 0 | " | | |
| | ng the preceding 24 hours, | | 2 ton | 8 21 | 40 lbs | | |
| Coal remaining on l | | | 2 ton | 4 | 64 " | | |
| | | | | | | | |

| P. M. | | | | | | | | , |
|-------------|----------|---------|----|----------------|--------|--|---|----|
| 1 Flood | S. by W. | D. m. | , | 29,83 73 72 68 | 0.0.3. | Cir. | 0 | 5. |
| 2 4 | S. G. W. | n.m. | 1 | 298273 73 69 | " | A STATE OF THE PARTY OF THE PAR | 0 | " |
| 3 | " | , | 1 | 29.8275 74 70 | 6.03. | | 2 | , |
| 4 | | 4 | , | 29.82747470 | - | | v | * |
| 5 | Douth | | 1 | 2980 747470 | ,, | | 2 | 4 |
| 6 86h. | E. n. E. | East | 2 | 2978 747370 | , | | 2 | 2 |
| 7 | n by E. | n by E. | 2 | 29.79 7473 70 | " | | 2 | 1 |
| 8 4 | n.n.E. | | 2 | 29.79 7474 69 | | , | 2 | 1 |
| 9 | " | nnE. | 2 | 29.79 73 73 70 | 0.03. | acim. | 0 | 4 |
| 10 , | - /. | " | 2 | 29.79 73 73 69 | , | " | 0 | 4 |
| 10 1 Plood. | Bask | | 1 | 29.79 73 73 70 | | 7 | 0 | |
| Mid. | South | n.E. | 2 | 29.78 73 7269 | | 1 | 0 | * |
| | | | 11 | | 1 | | | |

under the command of Commander J. J. Jewell , U. S. Navy, Dunday June 24th, 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Commences Ed until A. M. hour of watch. Calms Ed light airs from D. W. shifting to B. O. E. latter found of watch Heavy fall of dew. Flood tide. Elbow in hawse. Sistilling Colgrang. Trom 4 to 8 S.M. Maval Dade U.O. Maral Cade U.O. Soloudy. Light airs from Ad. W. Ed. Occasional druggling naive last hour. beland howse. At 6.00 swung to elt. Recd. for crew, 70 lbs fresh bread. Elbow in howse, port chain on topo. Maral Badelusz ca. Cachenter Lieux. U.D. M. From 8 N. m to Meridian. Overcast at first, clearing elightly afterward, blouds cum. nimb, Ed cir. cum, Hazy. Light airs from 6. b. 8, to 86. Went to quarters at 9.30. be omdy. Officer inefected ships Et crew. riding to ebb tide till 1000 roleen shack mater Ed started to swing. Finished swinging to flood at 11 oc. Captain of Denier Chair Chair Guencalled, Cleared hause at end of watch. Direught of flood 1.5 Kuoto. Destilling A. Coundstone From Meridian to 4P.M. Onsign (101) Overcail & cloudy first two hours, cloudy last two. Hazy. Light airs from D.E. first hour, slufting to ME. remainder of watch. Condid Officer paid official visit to Chinese mante of was. Flood tide. Clear hawse. Oslicia. rom Lto 8 P. M. Maral loades ton, M.M. 1- hour, slifting to bask 3nd NE. In light brerze betterward. Riding to flood till 500 When slack water. Owing to elbal 6:05, Greatest strength of flood 20 Knote. of ebb 1.1 Knots. Elbow in harow at end of watch Distilling. Al. Vamedetrae. From & P.M. to Midnight Ousign U.D. M. from M.N.E. W M.E. at 8:15 stopped distilling liabled fires in boilers nos. 1 % 3. mater in tanks 3000 gallons Ht. 11. swung to flood. belear howse. Maral Cade \$11.07 Examined and found to be correct. bee 19 wist

LOG of the United States I teamer Essex", 3 Rate, Moored in the harbor of Chemilpo, Norea.

| | | | Reading | | WIND. | | | | BAROME | TER. | TEME | ERAT | URE. | State of | Forms of | Hear ths. | e Sea. |
|-------|--------|---------|----------------------|-----------------------------------|-----------------------------------|--------|-------|---------|-------------------|--------------|-------------------|-------------------|----------------------|-----------------------------|---------------------|------------------------------|-----------------|
| Hour. | Knots. | Tenths. | of Patent Log. | by Standard Compass. Ships Head. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. att'd. | Air, Dry Balb. | Air, Wet Bulb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Cle Sky, in 10th | State of the Se |
| A. M. | Fe | ood. | | South | E. M. E. | 2 | | | 29.76 | 73 | 72 | 69 | | 0.03. | El nim. | 0 | 9. |
| 2 | | | | J. by m. | " | 2 | | | 29.94 | 72 | 72 | 69 | | , | " | 0 | |
| 3 | | | | | * | 7 | | | 29.73 | 72 | 72 | -69 | | | , | 0 | |
| 4 | | " | | | , | 2 | | | 29.72 | 72 | 72 | -69 | | | 2 | 0 | , |
| 5 | | | | | East | 3 | | | 29.70 | 7, | 71 | 68 | | 7 | El ninh. | 0 | - |
| 6 | | 4 | | , | " . | 3 | | | 29.70 | 71 | 70 | 67 | | , | " | 0 | |
| 7 | 86 | 6. | | n. E. byn. | " | 3 | | | 29.70 | 71 | 70 | 66 | | " | " | 0 | |
| 8 | | , | | n.n.E. | E. n.E. | 3 | | | 29.71 | 72 | 711 | 66 | | 7 | | 0 | , |
| 9 | | | | n.E. by n. | n.E. | 3 | | | 29.7 | -72 | -71 | 66 | | , | | 6 | , |
| 10 | | H | | , | , | 3 | | | 29.73 | | | | | | | 0 | |
| 11 | | " | | n.E. | | 4 | | 1933 | 29.73 | 73 | 73 | 66 | | | " | 0 | |
| Noon. | 200 | 00. | | E. N. E. | n. E. by E. | 4 | | | 29.73 | 74 | 73 | 67 | | | , | 0 | |

| Course and distance | made good since preceding noon by observation | ons. | knots. | tenths. | | |
|---------------------|---|-------------------|--------|-----------|--|--|
| Course and distance | (Latitude by D. R. | | 0 , | " | | |
| | | | 0 , | " | | |
| Position at Noon: | Latitude by observations of ⊙ | | 0 , | " | | |
| | Longitude by chronometer from Forenoon | Observations of ⊙ | 0 / | " | | |
| | (Latitude by | | 0 | , ,, | | |
| Position at 8 a. m. | Longitude by | | • | , " | | |
| | (Latitude by | | • | , ,, | | |
| Position at 8 P. M. | Longitude by | | • | , ,, | | |
| Current during the | time, knots tenths per hour, | setting to the | | | | |
| Variation of the Co | ompass by Amplitude o observed at Sunrise, s | ship's head | 0 | , ,, | | |
| Variation of the Co | mpass by Amplitude o observed at Sunset, | u | | , ,, | | |
| Variation of the Co | mpass by Azimuth ⊙ observed at | " | • | , ,, | | |
| Variation of the Co | mpass by Azimuth ⊙ observed at | u | | , ,, | | |
| Water expended du | ring the preceding 24 hours, | | 30 | O gallons | | |
| Water Dist | tilled during the preceding 24 hours, | | 12 | 00 " | | |
| Water remaining or | hand fit for use at Noon, | | 280 | 00 " | | |
| Coal consumed duri | ng the preceding 24 hours, | / | tons | 1840 lbs | | |
| Coal remaining on l | hand at Noon, | | 109 " | 864 " | | |
| | | | | | | |

| P. M. | Flood | D; by &, | MELP | 1 | 2000000010 | 100 | Cem. | | 9 |
|-------|-------|----------|-------------|---|----------------|--------|-----------------------|---|---|
| 2 | | South. | n. E. by E. | 3 | 29.72747469 | | neno. | | |
| 3 | | | " | 3 | 29.70 73 73 68 | 0.0.9. | , | 0 | " |
| 4 | " | 1 | 6. by n. | 4 | 29.69 73 73 68 | " | Cum Ofrat Ed nimb. | 0 | " |
| 5 | " | , | , | 3 | 29.66737267 | OC. | Ed nicet. | 0 | * |
| | 1 | O. by E. | " | 2 | 29.66787267 | b.c. | | | |
| 7 | E66. | 71.71.8. | n.n.E. | 3 | 29.66 73 71 66 | " | , | 2 | " |
| 8 | , | n by E. | , | 3 | 29.70 2270 67 | , | " | 2 | " |
| 9 | " | nhE. | , | 4 | 29.70 72 69 64 | " | , | 2 | " |
| 10 | , | " | " | 4 | 29.70 70 68 64 | , | | V | " |
| 11 | " | " | , | 4 | 29.71 70 68 63 | , | 1 | V | " |
| Mid. | | | , | 4 | 29.71 69 69 63 | " | " | 7 | 1 |

under the command of Commander J. F. Jewell Monday June 25 th , U. S. Navy, RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Commences Ed until H. A. M. Overcast Ed cloudy. Light breeze from E. N.E. Flood tide. Clear hawsel. From 4 to 8 N. M. Ensign U. O.M. Overcast with cir cum. I'd nimb. clouds. Hazy. Sentle breazed from East to E. n. E. Riding to flood till 60°C. Incated strougth 2,0 Knots. During to Ebb at 650 with an elbow in hawse. Took off yard mast Ed top covers. Received in Pay. Dept Ed usiced to crew, 883/4 lbs fresh beef Ed regetables Ed Il los of fresh bread. L'oosed sail to a bowline at 7.50 Strength of ebb at end of match 1.6 Kurts. A. Jauntetone. From 8 S. m to Meridian-Onsign U. ON. Overcast, cloudy Ed hazy. Light oqualls of mind last troo hours. Sentle to moderate breezes from n.E. 48 n.E. by E. al, 8:45 mail sleamer Owari Maru came in. Dent boarding officer on board, at 9.35 shortened sail. at 9.30 Seorge a Bickuell reported his return from leave. Dlack water at noon Ed swinging to flood. Clear hawse From Mendian to HP.M. OSciara. Maral leader U.D.M. Overcast Ed Cloudy. Hazy. Gentle to mod. breeze from N.E. by E. & Eby n. Mod. squalls. at 17:30 ewung to flood tide. blear hawse. Varnished bright wood work at break of poop. Overhauled clean From 4 P. m. to 8 P. M. Quesign U.O.M. Cloudy Ed pleasant. Overcast first hour. Light to gentle brever from E, by M. Ed M. N.E. Al v. Ho sighted the U. D. D. Juniata coming into the hartor. Exchanged numbers with Juniata. Juniata made general sig. inteng. 1711. Answered 1744. At 7:00 Juniata came to off our port beam. Made following general signals. Prep. 6140, 6140 W Hory. At sunsel, 7:04, seux down top galland mash Ed yards. Sent official to board U. D. D. Juniata, Ed acceived official visit from the D. D. Marie and Sent and Sent official visit from the Comby. Offices. ax 6.30 swing to ebb. Celbow in hause. Naval Cade 40%. From 8 P. M to Midnight: bloudy, Mod bruge from n.n.E. Riving to ebb tide. Elbow in hawe, port chain on top Examined and found to be correct. be 19 inish Total alloway Navigator.

LOG of the United States Steamer Essel", 30 Rate, Moored in the harbor of Chemiles, Korea.

| | | Panding | | WIND. | | | | BAROME | TER. | TEME | ERAT | URE. | State of | Forms of | Clear Oths. | ne Sea. |
|--------|---------|----------------------|-----------------------------------|--|--|---|--|--|---|--|---|--|--|--|--|--|
| Knots. | Tenths. | of Patent Log. | by Standard Compass. Ohips Head. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. att'd. | Air, Dry Bulb. | Air, Wet Bulb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Sky, in 10 | State of the Sea |
| ge. | 000. | | Douth | N. St. &. | 4 | | | 29.70 | 69 | 67 | 63 | | 6.0. | Cir Cum | 8 | 9 |
| | - | | A. A. M. | / | 4 | | | 29.69 | 69 | 67 | 84 | | , | 1 | 8 | " |
| | , | | O. by Ma | 4 | 4 | | | 29.69 | 69 | 67 | 63 | | 7 | " | 8 | |
| | - | | | , | 3 | | | 29.69 | 69 | 67 | 63 | | , | " | 0/ | |
| | | | | , | 3 | | | 219 69 | 67 | 66 | 63 | | , | | 4 | " |
| | | | | , | 2 | | | 29.69 | 67 | 66 | 63 | | ,, | " | 8 | " |
| on | ater | | A. by &. | , | 2 | | 163 | 29.69 | 67 | 67 | 64 | | " | " | 7 | 4 |
| | | | | North | 2 | | | 29.70 | 67 | 67 | 63 | | | , | 4 | |
| | 4 | | " | , | 2 | | | 29.71 | 68 | 68 | 63 | | , | | 4 | |
| | | | 77 81 | " | 2 | | | | | | | | * | , | 4 | |
| | , | | | | 2 | | | | | | | | | aum Briak | 4 | |
| | | | north | | 2 | | | 29.78 | 173 | 71 | 66 | | b.e.z. | " | 4 | , |
| | Je On | Plood. Ruoter Elf. | Patent Log. Plood. | Good. Glood. Glood. Gouth G. M. G. M. G. By M. G. By M. G. By E. M. M. M. M. Ebb. M. M. M. M. M. S. M. M. M. S. M. M. M. S. M. M. M. M. S. M. M. M. M. M. M. M. M. M. M. M. M. M. M. M. | Reading of Patent Log. Direction by Standard Compass. Plood. Douth N. V. E. A. A. M. B. B. M. Mater A. by E. Morth M. M. E. M. M. M. M. M. M. | Reading of Patent Log. Olips Head. Plood. Olips Head. Plood. Oouth O. V. E. H. O. by M. O. by M. O. by W. Omater A. by E. North 2 May E. May | Reading of Patent Log. Olifs Head. Plood. Oouth N.V. &. # A. D. M. A. By M. A. By E. Morth My E. M. M. &. M. M. M. M. M. M. | Reading of patent Log. Plood. Douth N. N. &. # Direction by Standard Compass. Direction by Standard Signature of Standard Compass. Direction by Standard Compass. Direction by Standard Compass. Direction by Standard Signature of Standard Compass. Direction by Standard Compass. | Grading of Patent Log. Plood. Direction by Standard Compass. J. J. & Height in Inches. 29. 70 29. 69 Direction by Standard Compass. J. J. & Height in Inches. 29. 69 29. 69 Direction by Standard Compass. J. J. & | Reading of Direction by Standard Compass. Plood. Direction by Standard Compass. Direction b | Reading of Patent Log. Direction by Standard Compass. Plood. Douth N. N. &. # 29. 70 69 67 67 69 67 69 69 67 69 69 67 69 69 67 69 69 67 69 69 67 69 69 67 69 69 67 69 69 67 69 69 69 69 69 69 69 69 69 69 69 69 69 | Reading of Patent Log. Plood. Direction by Standard Service Standard Compass. Direction by Standard Service Standard Service Standard Service Standard Compass. Direction by Standard Service Service Standard | Reading of Patent Log. Direction by Standard Compass. Direction by Standard Direction by St | ## Proof October 1 Direction by Standard ## Patent Log. Direction by Standard Compass. ## Patent Log. Direction by Standard ## Patent Log. Direction by Standard ## Patent Log. Direction by Standard Compass. ## Patent Log. Direction by Standard ## Patent Log. Direction by Standard ## Patent Log. Direction by Standard Log. Direction by Standard ## Patent Log. Direction by Standard Log. Direction by Standard ## Patent Log. Direction by Standard Log. Directi | Reading of patent Log. Direction by Standard Compass. Plood Douth N. V. E | Reading of Patent Log. Direction by Standard Compass. Direction Direc |

| Course and distance | made good since preceding noon by observations, | knots. | | tenths. | | |
|----------------------|--|------------------------------|-----|----------|--|--|
| | (Latitude by D. R. | 0 | , | " | | |
| | Longitude by D. R. | 0 | , | " | | |
| Position at Noon: | Latitude by observations of ⊙ | 0 | , | " | | |
| | Longitude by chronometer from Forenoon Observations of ⊙ | | , | " | | |
| | (Latitude by | . 0 | , | ". | | |
| Position at 8 a. m. | Longitude by | 0 | , | " | | |
| | (Latitude by | 0 | , | ,, | | |
| Position at 8 P. M. | Longitude by | • | , | " | | |
| Current during the | | | | | | |
| Variation of the Con | mpass by Amplitude o observed at Sunrise, ship's head | • | , | " | | |
| Variation of the Con | mpass by Amplitude ⊙ observed at Sunset, " | 0 | ., | " | | |
| | mpass by Azimuth ⊙ observed at | 0 | , | " | | |
| | mpass by Azimuth ⊙ observed at " | • | , | " | | |
| | ring the preceding 24 hours, | 30 | 10 | gallons. | | |
| Water | during the preceding 24 hours, | | | " | | |
| Water remaining on | hand fit for use at Noon, | 24 | 50 | " | | |
| | ng the preceding 24 hours, | ton | 5 4 | Louibs. | | |
| Coal remaining on h | | ton | 4 | 164" | | |
| | | | | | | |
| | | STATE OF THE PERSON NAMED IN | - | - | Control of the last of the las | |

| P. M | | | | | | | | | | | |
|------|---------|-------------|-------|----|----------|------|-----|------|--|---|----|
| | & mater | S. W. by A. | 1. 6. | , | 29.78 73 | 3 73 | 68 | b.c. | cir. | 5 | 9. |
| 2 | Flood. | O, A. M. | 7 | , | 29.78 76 | | | , | 4 | 5 | " |
| 3 | 1 | " | J. W. | 2 | 29.76 77 | | | | , | 5 | , |
| 4 | | , | " | 21 | 29.77 76 | | | | " | 5 | , |
| 5 | , | , | Wesk | 3 | 29.74 70 | | | | " | 6 | " |
| 6 | | | " | 3 | 29.77 75 | | | , | | 7 | |
| 7 | - | , | , | 2 | 29.7674 | | | " | , | 7 | , |
| 8 | 266 | n. by 6. | " | 2 | 29.76 73 | | | " | A STATE OF THE PARTY OF THE PAR | 7 | 1 |
| 9 | | | " | 1 | 29.19 7 | | 4 4 | , | 3/ Winx | 6 | , |
| 10 | 1 | north | , | 1 | 29.7971 | | | | 1 | 6 | 1 |
| 11 | | ′ ″ | " | 2 | 29.79 70 | | | | , | 6 | " |
| Mid. | 1 .3 | , , | " | 2 | 29.80 70 | | | , | , | 6 | 4 |
| 3 | | | | | | 1 | | | | | |

under the command of Commander J. J. Jewell , U. S. Navy, June 26 th, 1888.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

| Commences & until + N.M. | |
|--|-------------------------|
| and gentle bruges from n.n. & at 1.00 ewing to flood. The end of watch v.v Knots. pleas haws. | moonlight. Moderate |
| and gentle bruges from n.n.E. at 1:00 swang to flood. Three | igth of current al |
| end of watch V.V Anon. pleas haws. | 4. A. Dreuten |
| From H to 8 M. m | Link 11 Am |
| M.M.E. Ed morth. Slack rater at 7.00, swing to elf. Of 730 made | grutte breszes from |
| M.M.E. Ed north. Slack Frater af 700, swung to elf. Of 730 mad | e time and |
| signal, geographical 640. Ul 1:45 made prip, signal 61 | 44 El signal of execut- |
| signal, geographical 645. at 7:45 made perp, signal 61 ion at 8:00. Dent up top galland yards & mast. Red. on bo | are free trae. Many |
| | Colliain. |
| Trom & A. M. To Mendian: | Maral Cade U.On. |
| ell til Fil I de Vais Wramme Light bruge | from North. Riding to |
| Offine baid and official wait to the II A A Vincete to and office | Toff slays. Comdo |
| elb tide. Elbos in hawer fort chain on Top. Delling up fore & Officer paid an official neil to the U.S. Juniate. By 9:35 mus quarters. Exercised infantry & arbitlery companies. All 9:30 U.S. J. answered | Juniate made Stamis |
| answerd 7 | = - |
| From Meridian to HIM, | ourie 1 |
| From Mendian 10 HV. 110, | metal lill air from no |
| lait half light bresz of from O. W. al 1:30 woung to flood. bleand ha | ing and in many |
| ewire. Obreugth of flood at end of watch 1.6 Knots. Engaged in rigging Ed setting up starp | ratiling down toforad |
| rigging Es setting up starp | and the state of |
| From H to 8 Pm. | Ca-1 - wwwww |
| Clear Et pleasant. Light | brees from west |
| at 7:25 sent down t. g. yards. at 7:30 moving to eff tide. Engaged in | ratility down topman |
| rigging. at 5:00 H. M. S. Leander carne in and anchored. Dent a | |
| offer the usual civilities. Examined dry gun-cotton & batter | or board all me |
| The Cart | |
| From 8 P. m to midnight. | Cusign U Dry |
| good condition. a boarding officer of H. m. B. Leander came Front 8 P. M to Midnight. The Fair & Isleasant. Mornly airs to light broze from Mest. Straight of tide at and a | ght. Ell tide, Light |
| une to regul, whose from mey. wrength of tide as and o | g naich, 4 Mari |
| | cs. S. Seemin |
| | Lieux. U.J.n. |
| | |
| | |

Examined and found to be ownerd her square

Totalloway Views Views

LOG of the United States I teamer Essex", 3- Rate,
Moored in the harbor of Chemiles, Korea

| | | | Reading | | WIND. | | | | BAROME | TER. | | | | State of | Forms of | Clear Oths. | he Sea. |
|-------|--------|---------|----------------------|------------|-----------------------------------|--------|-------|---------|-------------------|--------------|-------------------|-------------------|----------------------|-----------------------------|---------------------|--------------------------------|------------------|
| Hour. | Knots. | Tenths. | of Patent Log. | Slups Head | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. att'd. | Air, Dry Balb. | Air, Wet Balb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Clea Sky, in 10ths | State of the Sea |
| A. M. | Te | ood. | | g. by n. | O. O. W. | , | | | 29.81 | 69 | 68 | 65 | | 6.0. | Cir. | 8 | 4 |
| 2 | | | | | ,, | 1 | | | 29.80 | 69 | 68 | 65 | | " | 4 | 8 | " |
| 3 | | | | 9 9. W. | | 1 | | | 29.79 | 168 | 67 | 63 | | | | 8 | |
| 4 | | | | I. by W. | Douth | , | | | 29.79 | | | | | | , | 8 | i |
| 5 | | | | | " | 2 | | | 29.79 | | | | | , | " | 7 | - |
| 6 | | , | | | , | 2 | | | 29.79 | | | | | | , | 5 | " |
| 7 | | | | South | A.A.E. | 2 | | | 29.80 | | | | | b.c.p. | Formint. | , | |
| 8 | | | | 996 | " | 2 | | | 29.80 | | | | | 6.0 | cum. | 4 | |
| 9 | 8 | 66. | | n by 8. | South | 2 | | | 2980 | | | | | 0,0 | & nimb | | |
| 10 | W. | | | North | D. M. | 2 | | | 2981 | | | | | b.c. | | 3 | |
| 11 | | | | * | " | 2 | | | 29.82 | | | | | , | " | 2 | |
| Noon. | | | | A. by M. | mom. | 3 | | | 2982 | | | | | ,, | " | 3 | 7 |

| Course and distance | made good since preceding noon by observations, | knots. | tenths. |
|----------------------|--|--------|----------|
| | Latitude by D. R. | 0 , | " |
| | Longitude by D. R. | . , | " |
| Position at Noon: | Latitude by observations of ⊙ | . , | " |
| | Longitude by chronometer from Forenoon Observations of ⊙ | 0 , | ". |
| | (Latitude by | 0 / | " |
| Position at 8 a. m. | Longitude by | 0 , | " . |
| 10100000 | (Latitude by | 0 / | " |
| Position at 8 P. M. | Longitude by | , | " |
| Current during the t | ime, knots tenths per hour, setting to the | | |
| Variation of the Cor | npass by Amplitude o observed at Sunrise, ship's head | 0 / | " |
| Variation of the Cor | npass by Amplitude ⊙ observed at Sunset, " | 0 , | " |
| Variation of the Cor | npass by Azimuth ⊙ observed at " | 0 , | " |
| Variation of the Cor | npass by Azimuth ⊙ observed at " | • , | " |
| Water expended dur | ing the preceding 24 hours, | 350 | gallons. |
| Water | during the preceding 24 hours, | | " |
| Water remaining on | hand fit for use at Noon, | 2100 | " |
| Coal consumed durin | og the preceding 24 hours, | tons / | foo lbs. |
| Coal remaining on h | and at Noon, | tons # | 64 " |
| 196 | | | |

| P. M. | 4 | | | | | | | | | |
|-------|-------|----------|-------|-----|-----------|-------|----------|------|---|----|
| 1 | Ell | A. m | 8. m | 3 | 29.80 70 | 696 | o 6.0.3. | Com. | 7 | 9. |
| 2 | Flood | D. D. W. | " | 3 | 29.79 71 | | 8 " | " | 8 | " |
| 3 | , | " | , | 3 | 2978 71 | 70 6 | | | 8 | , |
| 4 | 4 | | " | 3 | 297771 | 696 | 7 " | 4 | 8 | 2 |
| 5 | 4 | * | " | 3 | 29.7871 | 69 6 | 8 . | , | 8 | |
| 6 | , | , | Douth | 2/ | 29.77 70 | 68 6 | 7 b.c.f. | " | 6 | 4 |
| 7 | , | , | " | 21. | 29.77 70 | 68 6 | 7 0.0.7. | 4 | 0 | |
| 8 | , | , | , | 1 | 29.77 69 | 68 6 | 6 " | cum, | 0 | |
| 9 | Elb. | north | " | 1 | 29,80 69 | 68 67 | , , | " | 0 | " |
| 10 | , | n.by.E. | * | 1 | 29.80 69 | 696; | 7 " | " | 0 | |
| 11 | , | north | " | 1 | 29,81 69 | 68 6% | 1 b.o.f. | | 3 | " |
| Mid. | 4 3 | " | | 1 | 29. 81 69 | 69 6 | | | 2 | 1 |

under the command of Commander J. F. Jewell , U. S. Navy, Wednesday June 27th, 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Commences Ed until 4 A. M. clouds. Light airs from D.D. I to Douth. During to flood at 12:30. Greatest. etreugth 1.8 Knots. From 4 to 8 S. M. Ousign U.O. N. bloudy, with passing showers of rain third hour. Light breeze from South Ed D. D. E. Niding to flood tide. Recd. in Vay. Deft. for issue to crew, 88 % lbs each, fresh beef Ed regitables Ed 7 ilbs. fresh bread. b. b. Anderson (sea) fell off t. g. forecastle Ed injured his head. From 8 S. M to Meridian! Eusign U.D.M. Generally cloudy, Occasional light driggling shown first hour. Light breeze from Douth hailing to W. O. W. and freshening to gentle breeze by end of watch. Elb lide. At 9:30 inspected divisions Ed exercised at general quarters. Their armed & equipped all boats, lowering second cutter) Jonly. Juniata asked for permission to salute Japanese Consul. Irauted permission. Juniata saluted him with seven guns 4. F. Sellinin From Mendian to 4 P.M. Lieux U.D.M. cir, cum. Light to gentle breeze from O. W. Dwing to flood at 100. Rattling down topmask rigging Ed squaring lower vion nathines. bond's Officer paid an official visit to U.D.O. Juniata. Captain of H.M. D. Leander Galled. Greated strength of tide 7.0 Knots Shifted to south Ed a thick fog set in lasting ther remainder of the watch Light breaze then from bouth! I lood tide of Counston From 8 P. M. to Midnight: Lieux. U.D. M. Sewerally cloudy. Heavy mix fog till 10:30, lelearing Outh. Stack rater at 8 0'C. Dwing to ebb at 8:30. Greatest strugth 1.5 knots Ensign U. O. M. Examined and found to be correct. Lee 19 mist.

LOG of the United States Sleamer Essel", 3d Rate, Moored in the harbor of Chemilles, Korea,

| | | | Reading | | WIND. | | | | BAROMET | TER. | TEME | ERAT | URE. | State of | Forms of | lear tbs. | e Sea. |
|-------|--------|---------|----------------------|--------------------------------|-----------------------------------|--------|-------|---------|-------------------|-------|-------------------|-------------------|----------------------|-----------------------------|---------------------|--------------------------------|------------------|
| Hour. | Knots. | Tenths. | of Patent Log. | by Standard Compass Aufs Head | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. | Air, Dry Bulb. | Air, Wet Bulb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Clea Sky, in 10ths | State of the Ser |
| A. M. | Fe. | rod. | | m by S. | Douth | , | | | 219.81 | 70 | 69 | 68 | | 0.0.4. | cum | 0 | 9 |
| 2 | | 1 | | n by S. Oby n. D. D. M. | " | 1 | | | 29.81 | | | | | ,) | " | 0 | 7 |
| 3 | | , | | A.A.M. | A. W by S. | 1 | | | 29,80 | | | | | 7 | | , | , |
| 4 | | | | , | , , | 1 | | | 29.80 | 69 | 67 | 66 | | , | 7 | 4 | , |
| -5 | | | 1 | | South | 1 | | | 29.80 | 68 | 68 | 66 | | 6.0%. | Cir. | 5 | , |
| 6 | | " | | , | " | 2 | | | 29.78 | 68 | 68 | 66 | | " | Cis Cum | 5 | |
| 7 | | , | | A. by M. | 7 | 2 | | | 29.79 | 68 | 67 | 66 | | 1 | nimb. | 2 | " |
| 8 | | | | " | d. m. | 1 | | | 2980 | 69 | 69 | 66 | | , | , | 1 | |
| 9 | 8 | 66. | | n.m. | , | 2 | | | 29.78 | 69 | 67 | 66 | | , | + | 2 | |
| 10 | , | , | | north | 4 | 2 | | | 29.77 | 70 | 69 | 67 | | | " | 1 | |
| 11 | | , . | | " * | West | 2 | | | 29.78 | 70 | 69 | 67 | | 4 | " | 1 | |
| Noon. | | - | 455 | 78786 | . , | 2 | | | 29.79 | 71 | 70 | 68 | | | Cir Cum, | 3 | , |

| | , , , , , , , | " | | | | |
|------|---------------|---|--------------|-----------------------|---------------------|---------------------|
| | , , , | " " " | | , | | |
| 0 | , , | " " | | , | | |
| 0 | , | " | | | | |
| 0 | | " | | - | | |
| 0 | | | | | | |
| | , | " | | | | |
| | | | | | | |
| 0 | , | " | | | | |
| | | | | | | |
| 0 | , | " | | | | |
| 0 | , | " | | | | |
| 0 | , | " | | | | |
| 0 | , | " | | | | |
| 30 | 0 | gallons. | | | | |
| | | " | | | | |
| 17 | 50 |) " | | | | |
| tons | 70 | o a lbs. | | | | |
| | 15 | -44 " | | | | |
| | 30 | 350 | 350 gallons. | ° ′ ″ 3√0 gallons. | ° ′ ′′ 3√0 gallons. | ° ′ ′′ 3√0 gallons. |

| 100 | | Name of the Owner | | | Name and Address of the Owner, which the Park of the Owner, which the Owner, which the Owner, which the Owner, | | | | | - |
|-----|----------|---|--------|----|--|-----|---------|------|----|---|
| | M. 1 266 | No by M. | Wesk | 2 | 29.80 72 71 | 19 | b.c.3. | Cir. | 4 | 9 |
| | 2 Flood | , // | " | 2 | 29.80 13 12 | | , | | - | |
| | 3 " | D. S. M. | 8. W. | 21 | 29.7973 72 | 1 | | | 8 | 1 |
| | 4 1 1 | , , | " | 3 | 29.75 74 12 | | " | " | 8 | " |
| | 5 | , | Wby O. | 2 | 29.74 73 71 | 6 4 | | | | |
| - | 6 / | | 11 | 3 | 29.75 72 70 | | | | | |
| | 7 | , | WAW. | 2 | 29.7471 70 | | , | 2 | | |
| | 8 200 | 7 9 4 9 | , , | 2 | 29.76 70 70 | / | 1" | | | |
| 100 | 9 Ilb. | N. 6 by 6. | Calm | 0 | 29.77 71 69 | | ि,टरुभ. | " | 2 | |
| 100 | 0 / | North | Douth | 2 | 29.77 72 70 | | " | - | 1 | |
| | 1 , | Jr by E | 4 | 2 | 29.77 71 70 | | 1 | | 21 | |
| M | id. | " | 1 | 2 | 29.77 71 69 | | " | " | - | |

under the command of Commander J. F. Jewell Thursday June 78 th , U. S. Navy, , 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Cloudy last hours. Fog lifting occasionally. Light airs from South & D. W. by O. Olack water at 1.00 Et swung to flood. Drift of tide at end of watch 1.8 Knote. From 4 to 8 A. M. Severally cloudy. Light breeze from Bouth with last hours, when light airs from D.M. Flood tide. Rect. for crew & issued 883/4 lbs. fresh beef, 88 % lbs fresh vegetables, & 71 lbs. fresh bread. At 8:00 dreised ship, rainbow fashion, English ensign at the main

From 8 N. M to Meridian

Partly akan with air anner & manh aline esching. Partly clar with cir, cum, Ed numb. Clouds. Nazy. Bright Ed warm latter pats. Light breeze from D. W. to week. Dlack water at 8:30. Dwing to elf at 9:10. at 9:30 mustered at quarters; after which had Company Buglish Russian, & Japanese & Chinese Lenior vessels fired palutes of 11 guns at noon in honor of the day. U.D. D. Juniata made Lux, signal 4561. Quelwired Offermative" From Mendian to HP. M. Ensign UD. R. Clear, hazy is marm. Light to gentle breezes from levery to flood. Mrengthe of fired a salute of 21 guns. Dlack mater as 1:00 and ewing to flood. Strengthe of tide as end of match 16 knotes

From H to 8 P. M. Mayal bader 40.76 guthe breeze from W by A. to W. S. W. Riding to flood. Treatest strength 1.6 moto. Sent down J. H. yards at sunset. ax 5 min, before sunset made preparatory 6143 Ed at v min. of, Gew. Signal 6143 IT Namatone From 8 P. m to midnight On sign U. O.R. dew. Calw, Ed light breezes from Douth. Dlack water at 9: Es swowing to lbb. Maral Caderun.

Examined and found to be correct. thee 19 mish

Extalloway Navigator.

| | | | Reading | | WIND. | | | | BAROME | TER. | TEME | ERAT | URE. | State of | Forms of | lear ths. | e Sea. |
|-------|--------|---------|----------------|-------------|-----------------------------------|--------|-------|---------|-------------------|-------|-------------------|-------------------|----------------------|-----------------------------|---------------------|------------------------------|-----------------|
| Hour. | Knots. | Tenths. | of Patent Log. | Oluka Head. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. | Air, Dry Bulb. | Air, Wet Bulb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Cle Sky, in 10th | State of the Se |
| A. M. | 800 | 16. | | North | neix | , | | | 29.18 | 71 | 70 | 69 | | b.e.z.n. | Cit. | 2 | 9 |
| 2 | Fl | | | South | Calm. | 0 | | | 29.80 | | | | | " | , | 1 | " |
| 3 | 4 | | | A. A. M. | . , | 0 | | | 29.81 | 71 | 70 | 68 | | " | , | 1 | * |
| 4 | | | | A. by M. | Douth | , | - | | 29.80 | 70 | 70 | 68 | | " | " | 1 | 11 |
| 5 | 4 | ~ | | 0. d. m. | Calm | 0 | | | 29. 74 | 170 | 70 | 68 | | " | Cum, | 4 | 1 |
| 6 | 4 | | | , | " | 0 | | | 29.80 | | | | | 6.0.f. | " | 5 | " |
| 7 | 4 | | | " | " | 0 | | | 2980 | 71 | 70 | 69 | | , | " | 2 | 1 |
| 8 | | | | , | , | 0 | | | 29.81 | 70 | 70 | 69 | | " | " | 1 | 7 |
| 9 | " | | | , | ma.m. | 1 | | | 29.83 | 271 | 70 | 69 | | ,, | 1 | 1 | 11 |
| 10 | El | 6. | | 18. by E. | " | 2 | | | 29.82 | 72 | 71 | 70 | | 6.0.3. | cum, | 7 | 4 |
| 11 | 4 | | | North | D. W. | 2 | | | 29.82 | | | | | , | " | 8 | 1 |
| Noon. | " | | | , | , | 2 | | 16.00 | 29.82 | 1/2 | 71 | 69 | | , | , | 7 | 11 |

| Course and distance n | nade good since preceding noon by observations, | kno | ts. | | tenths. | |
|-----------------------|--|-----|------|----|----------|------|
| - | Latitude by D. R. | 0 | | , | " | 12 |
| | Longitude by D. R. | o | | , | " | |
| Position at Noon: | Latitude by observations of ⊙ | 0 | | , | " | |
| | Longitude by chronometer from Forenoon Observations of ⊙ | | | , | " | |
| | Latitude by | | , | , | " | |
| Position at 8 a. m. | Longitude by | | | , | " | |
| (| Latitude by | | 0 | , | " | |
| Position at 8 P. M. | Longitude by | | 0 | , | " | |
| Current during the ti | me, knots tenths per hour, setting to the | | | | | |
| Variation of the Con- | apass by Amplitude ⊙ observed at Sunrise, ship's head | | 0 | , | " | |
| Variation of the Com | pass by Amplitude ⊙ observed at Sunset, " | | | , | " | |
| Variation of the Com | pass by Azimuth ⊙ observed at " | | 0 | , | " | |
| Variation of the Com | pass by Azimuth ⊙ observed at " | | • | , | " | |
| Water expended duri | ng the preceding 24 hours, | | 30 | 0 | gallons. | |
| Water Distin | 140 / | | 30 | 00 | " | 1 31 |
| Water remaining on l | hand fit for use at Noon, | | 17 | 00 | 5 " | |
| Coal consumed during | g the preceding 24 hours, | | tons | 21 | /() lbs. | |
| Coal remaining on ha | nd at Noon, | 107 | 1 " | 16 | 74 " | |

| P.M. 1 Ebb. | no by M. | Wesk | 21 | 29.81 7272 70 | 6.0.3. | Cist Cunv. | 6 | 9 |
|-------------|------------|---------|----|-----------------|-----------|------------|---|---|
| 2 Flood. | n b. m. | " | 21 | 29.80 74 74 71 | " | " | 6 | 4 |
| 3 / 1 | A.M. by M. | , | 3 | 29.79 66 76 71 | | " | | |
| 4 1 | D. 7. | " | 3 | 29.80 76 76 72 | " | 4 | 6 | , |
| 5 " | D. W by D. | 1 | 3 | 29.79 75 7671 | , | , | 1 | 1 |
| 6 " | , / | , | 3 | 29.78 747471 | " | " | 6 | 1 |
| 7 " | D. D. W. | " | 2 | 29.80 73 73 70 | " | " | 8 | 1 |
| 8 4 | 1 | " | 1 | 29.79 127270 | " | " | 8 | " |
| 9 " | 1 | , " | 1 | 29.80 71 70 67 | 6.c.zl. | 1 | 8 | 1 |
| 10 Ebb, | no by m. | A.A. M. | 1 | 2981717068 | 6.03.8.6. | | 8 | 1 |
| 11 4 | 16 by E | Douth | 2 | 29. 82 70 69 67 | 6.0.26. | 4 | 8 | , |
| Mid. | n.A.E. | 4 | 2 | 29.82 70 69 67 | " | : | 9 | - |

under the command of Commandes I. F. Jewell Friday June 29th , U. S. Navy, RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. Commences & until H. M. from West first hour & Douth last hours. Calul remainder of match. at 1:45 to AM Enugn U. A.A. swung to flood. From 4 to 8 S.M. Consign U. O. A. Generally cloudy. Fazy Ed mit at first. Joggy afterward. Calm after first hour when light airs from Douth. Reding to flood Greatest strength 1.6 Knots, At J. 47 made preparatory 5461 % af 7 - Beul Signal 0461, brossed light yards Ed loosed vails. Received Ed issued to crew. It lbs fresh broad. It ourstone. From 8 N. M. to Meridian: Onsign U.O. A. Clear pleasant to hazy. Light alis to light breezest from m. 8. m to 8. m. at 9:30 mustered crew at quarters Ed exercised devisions as follows, 1st singlesticks; 2nd Mas. It powder pestols; as 10:00 exercised at sail drill, brade following general signals to U.D.D. Juniatas: 48 Nb, 5521, 5960, 5961, 5966, 5961, 5966, 5961, 5966, 5521, 6099, 48 26, 54 55, zero. Duck mater from 9 to 10 and swung to Ebb. ax 8:40 started water from distilles, over into the tanker Aluny. From Mendian to AV. Mo Hayal Cade UDB Severally clear Ed pleasant, Warm. Light to gentle bruge from West. ax v. swung to flood. Distilling, From 4 to 8 P.M. Onsign U. J. To Benerally clear, hazy to pleasant. Light airs to gutle breszes from West. at 4:30 mont to quarters Et served out clean hannocks. Flood tide, as 7: 20 made prep. sig. 60 70 Ed signal of execution as 7:20. Deut down royal yards Ed unbent light sails. Dietelling. Seearg dupordentendent of Frake of Chemules made Micial visit. Haval Cade UA76 From 8 V. M. to Mionight! lelear, mild in pleasant. Lightning to old. Ed Me and Ad a 68 Light airs from West and J. A.M. shifting at Increasing to light breeze from Douth last half. Slack water at 9:00. Reding to elb tide at end of watch. Distilling

Examined and found to be correct bee 19 with

Leux 40 Novigetor.

LOG of the United States Steamer Essex", 3 - Rate,
Moored in the harbor of Chemiles, Agrea.

| | | | 0 | , , , , | | | | // | | | | | | | | | |
|-------|--------|---------|---------------------------------|--------------------------------------|-----------------------------------|--------|-------|---------|-------------------|--------------|-------------------|-------------------|----------------------|-----------------------------|---------------------|----------------------------------|------------------|
| | | | D . W | • | · WIND. | | | | BAROME | TER. | TEMP | ERAT | URE. | State of | Forms of | Hear other | le Sea. |
| Hour. | Knots. | Tenths. | Reading of Patent Log. | COURSES STEERED by Standard Compass. | Direction by Standard Compass. | Force. | Heel. | Leeway. | Height in inches. | Ther. att'd. | Air, Dry Bulb. | Air, Wet Bulb. | Water at Surface. | the Weather, by symbols. | Clouds, by symbols. | Prop. of Clear Sky, in 10ths. | State of the Sea |
| A. M. | 50 | el. | , | B.by W. | D. A. W. | 2 | | | 29.83 | 69 | 69 | 67 | | 0,C.f. | Cum. | 0 | 0, |
| 2 | Fe | ood. | | 76 m. | , | 2 | | | 29.85 | 135777 | 1993 | | | 0 | , | 0 | 7 |
| 3 | | * | | D. D. M. | A. W. | 2 | | 100 | 29,86 | 70 | 69 | 67 | | 0,0,7% | , | 0 | , |
| 4 | | | | " | m. m. | 2 | | | 29.87 | 69 | 68 | 67 | | 0, e, f, | , | 0 | 1 |
| 5 | - | 7 | | | | 1 | | | 29,89 | 70 | 69 | 67 | | " | " | 0 | 3 |
| 6 | | | | | Calm | 0 | | | 29.89 | 69 | 68 | 66 | | " | , | 0 | |
| 7 | | 7 | | " | mo.m. | 1 | | | 29.89 | | March 1997 | 10000 | 100 | " | " | 0 | 1 |
| 8 | | - | | A. by m | " | 1 | | | 29.89 | | | | | " 1 | " | 0 | - |
| 9 | | , | | " | , | 1 | | | 39.89 | 1000000 | | 10000 | | b.c. 7. | Cum | 1 | - |
| 10 | ~ | 11 | | - " " | Calm. | 0 | 163 | - les | 39.89 | 1000 | | | | " | cir. | 4 | - " |
| 11 | 8 | 66. | | Thy &. | West | 1 | | | 29,90 | 10000 | 1 | | | b.c.3. | " | 1 | - |
| Noon. | | | 8333 | 1 | " | / | | 100 | 29.90 | 71 | 69. | 67 | | " | " | 7 | 1 |

| Course and distance | made good since preceding noon by observations, | knots. | tenths. | |
|---------------------|--|--------|----------|--|
| | (Latitude by D. R. | . , | " | |
| | Longitude by D. R. | , | " | |
| Position at Noon: | Latitude by observations of ⊙ | 0 , | " | |
| | Longitude by chronometer from Forenoon Observations of ⊙ | 0 / | " | |
| | (Latitude by | 0 / | " | |
| Position at 8 a. m. | Longitude by | 0 | , ,, | |
| | (Latitude by | 0 | , ,, | |
| Position at 8 P. M. | . Longitude by | • | , ,, | |
| Current during the | time, knots tenths per hour, setting to the | | | |
| Variation of the C | ompass by Amplitude ⊙ observed at Sunrise, ship's head | • | , ,, | |
| Variation of the Co | ompass by Amplitude ⊙ observed at Sunset, " | • | , ,, | |
| Variation of the C | ompass by Azimuth ⊙ observed at " | • | , ,, | |
| Variation of the C | ompass by Azimuth o observed at | • | , ,, | |
| Water expended du | uring the preceding 24 hours, | 35 | gallons. | |
| Water & ist | filled during the preceding 24 hours, | 1650 |) " | |
| | on hand fit for use at Noon, | 300 | 00 " | |
| Coal consumed dur | ring the preceding 24 hours, | / tons | 680 lbs. | |
| Coal remaining on | hand at Noon, | 106 " | 994 " | |
| | | | | |

| P. M. | | | | | | | | | |
|--------------------------------------|--------|------------|--------|---|----------------|-------|---------|---|---|
| Name and Address of the Owner, where | 266. | Horth | m.o.n. | , | 29.90 72 70 68 | b.c. | Cum | 9 | 9 |
| | | | | 2 | 29.89 72 72 70 | | , | | |
| 3 | Flood. | 76 by n. | O.M. | 2 | 29.88 74 74 70 | | 7 | | |
| 4 | , | A. W by d. | " | 2 | 29.88 76 75 71 | " | | 9 | |
| 5 | " | 8. d. M. | " | 2 | 29.90 767671 | , | " | 9 | " |
| 6 | 4 | " | , | 7 | 2988 7574 70 | | , | 9 | |
| 7 | , | " | " | 2 | 39.89 73 1269 | 6.03. | 4 | 8 | 7 |
| 8 | 1 | , | " | 2 | 29.89 7371 69 | " | 1 | 8 | 1 |
| 9 | " | " | | 1 | 29.89 72 72 69 | 6.c. | , | 9 | 1 |
| 10 | 1 | I, by W. | " | 1 | 29.89 71 71 69 | * | 1 | 9 | |
| 11 | Ell. | 76. by E. | Calm | 0 | 29.90 71 70 68 | b.cg. | Cition. | 4 | 4 |
| | " | , | " | 0 | 29.91 11 71 69 | "0 | 4 | 4 | " |
| 1 | | | | | | | 1 | - | - |

under the command of Commandes J. F. Jewell Daturday June 36th , U. S. Navy, , 1888. RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY. S. S. W. to M.D. W. at r: w swung to flood, Strength of current at end of watch 1-0 Mnot. at H:00 stopped austilling; The tanks being full. CA. J. Cellyn From 4 to 8 S. M. Liux U. J. H. Overcast, cloudy and foggy. Heavy bank of fog to seaward. balms and light girs from n. o. n. at 9:25 made uniform and time signal 155. Flood tide. Recd. on board 883/4 lbs beef Et vegetables Edy, lbs bread. ax 4:15 hauled fires in nos. 1 Ed 3 boilers. From 8 MM to Meridian. Haval leader UON part Et warm. Light airs from n. O. W. Ed west, balm second low, Dwing to ebb The Japanese Consul visited this ship officially. The Japanese Russian Elagal ford. The Landing party under command of Lieux. Italloway returned at 11.30 from Deoul.

Trom Mendiau to HP. M. Eusign U.D.M.

W.D.M. thun light brusse from S.M. is mo, M. at 3:00 swung to flood, b. Hansen was shipped today as 2nd class fireman, to date from the 23 unst. Os & Donnin From 4 to 8 P. M. Riding to flood, at 7:10 H. M. S. Satelite anchored in harbor, and sent a boarding officer to extend the usual civilities

From 8 G. M. to Midnight:

Disagn U. D. M. S. M. W. M. M. Midnight:

S. W. watel 10.00, then calm. At 11:00 swang to est. Direugth of current at and of match 1. V moto Xieux. W. D. A. Lung UAA Examined and found to be correct. Es Galloway and

